

# ROADRAILER

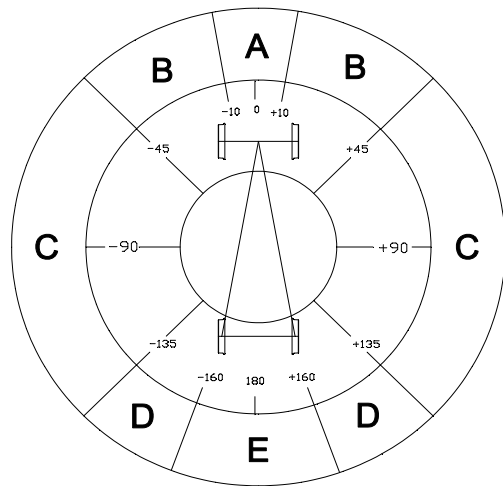
by REXQUOTE

e-mail: sales@rexquote.co.uk

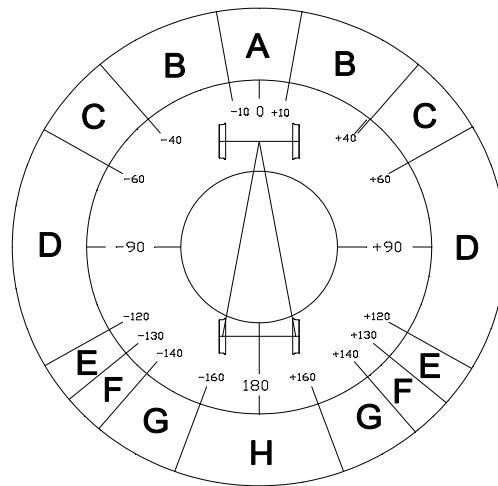
Web: www.rexquote.co.uk

TEL:01823 433398

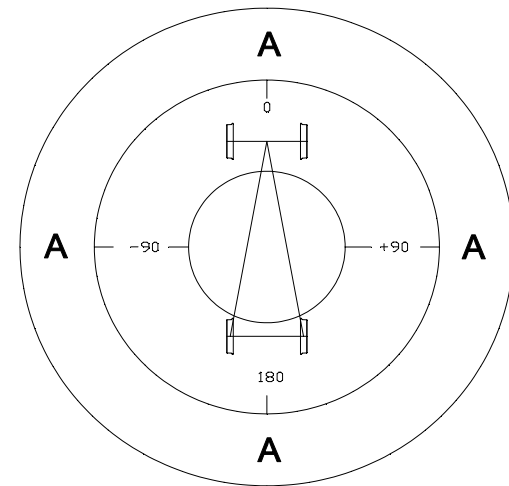
Oscillating Axle



Oscillating Axle



Oscillating Axle



**TANDEM LOADS ONLY** on Machine fitted with permanently attached Quick Hitch

Machine Type: Volvo EW180BR  
 Serial Number: 8741012  
 Rail Axle Number: 2080  
 Network Rail Number: 99709 940690-9  
 Equipment: Boom 2.06m Artic 3.02m Arm 2.0m  
 Date: 17th April 2013  
 Issue: 2  
 Software Version: V2.17.12.00

This machine is equipped with a Rexquote Rated Capacity Indicator. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530-PLT Issue 2


Radius / Height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the lifting point with no other equipment attached. This machine is fitted with an hydraulically adjustable boom. This allows the machine to reach the same point in space with a variety of different equipment angles, each combination has a different safe working load. The charts above show both the upper & lower limits of the loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity.

All rail duties listed are valid for use on up to a 1:25 gradient, and with a maximum track twist of 25mm.

# RATED LIFT CAPACITY CHART

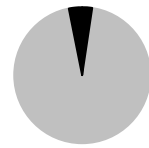
RIS 1530


Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>1aU</b>	<b>ROAD</b>	+/- 10° Over Osc End		<b>66%</b>

**RADIUS**

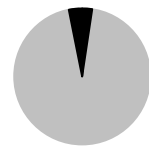
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
<b>MINIMUM LOADS</b>	<b>HEIGHT</b>	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	2.71	-	-	-	-	-	
		6.0	-	-	-	-	2.72	2.35	2.04	-	-	-	
		5.0	-	-	-	-	3.15	2.69	2.32	2.03	1.79	1.59	
		4.0	-	-	4.45a	3.62	3.04	2.61	2.26	1.99	1.76	1.57	1.40
		3.0	-	-	4.33	3.48	2.90	2.51	2.20	1.94	1.72	1.54	1.39
		2.0	7.48	5.40	4.18	3.37	2.79	2.42	2.13	1.88	1.69	1.52	1.37
		1.0	5.73a	5.19	4.04	3.27	2.72	2.36	2.08	1.85	1.65	1.49	1.35
		0.0	6.71a	5.12	3.98	3.22	2.71	2.34	2.05	1.82	1.63	1.47	1.34
		-1.0	6.99	5.11	3.98	3.24	2.72	2.34	2.05	1.82	1.63	1.47	-
		-2.0	7.03	5.14	4.01	3.27	2.74	2.36	2.06	1.83	1.64	-	-
		-3.0	6.92	5.26	4.12	3.36	2.83	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1aU</b>	<b>ROAD</b>	+/- 10° Over Osc End		<b>66%</b>

**RADIUS**

		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
<b>MAXIMUM LOADS</b>	<b>HEIGHT</b>	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	2.71	-	-	-	-	-	
		6.0	-	-	-	-	2.73	2.36	2.05	-	-	-	
		5.0	-	-	-	-	3.16	2.71	2.36	2.07	1.81	1.59	
		4.0	-	-	4.48	3.69	3.11	2.68	2.34	2.07	1.81	1.59	1.41
		3.0	-	-	4.41	3.63	3.07	2.65	2.32	2.07	1.80	1.59	1.40
		2.0	7.48	5.56	4.39	3.61	3.06	2.64	2.32	2.04	1.78	1.57	1.39
		1.0	7.23	5.43	4.33	3.58	3.03	2.61	2.28	2.00	1.75	1.54	1.37
		0.0	7.17	5.33	4.23	3.50	2.96	2.55	2.23	1.95	1.70	1.51	1.35
		-1.0	7.16	5.30	4.19	3.44	2.92	2.51	2.17	1.90	1.67	1.49	-
		-2.0	7.19	5.31	4.19	3.44	2.88	2.46	2.12	1.87	1.65	-	-
		-3.0	6.99	5.29	4.16	3.39	2.84	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	2 of 45

# RATED LIFT CAPACITY CHART

RIS 1530


Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>1aL</b>	<b>ROAD</b>	+/- 10° Over Osc End		<b>66%</b>

**RADIUS**

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
<b>MINIMUM LOADS</b>	8.0	-	-	-	-	-	-	-	-	-	-	
	7.0	-	-	-	-	2.81a	-	-	-	-	-	
	6.0	-	-	-	-	2.96b	2.52b	2.63a	-	-	-	
	5.0	-	-	-	3.43b	2.92b	2.51b	2.24b	2.42a	2.43a	-	
	4.0	-	-	4.45a	3.97b	3.34b	2.86b	2.47b	2.16b	2.62b	2.59a	2.39a
	3.0	-	-	4.67b	3.86b	3.26b	2.80b	2.44b	2.16b	2.71a	2.29a	2.62a
	2.0	7.87a	5.79b	4.62b	3.82b	3.23b	2.79b	2.44b	2.69b	2.47a	2.39a	2.68a
	1.0	5.73a	5.58a	5.86a	4.59b	3.90b	3.53b	3.45b	2.88a	2.74a	2.75a	2.89a
	0.0	6.71a	5.77a	5.61a	5.74a	5.51b	4.92b	4.31a	3.12a	3.78a	3.10a	2.85a
	-1.0	9.63a	9.03a	8.46b	7.30b	6.65b	5.77a	5.08a	3.85a	4.02a	3.66a	-
	-2.0	10.00	10.00	8.53b	7.07b	6.00b	5.37b	4.86b	4.34b	3.73a	-	-
	-3.0	9.60b	10.00	8.73b	7.24b	6.18b	-	-	-	-	-	-
	-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1aL</b>	<b>ROAD</b>	+/- 10° Over Osc End		<b>66%</b>

**RADIUS**

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
<b>MAXIMUM LOADS</b>	8.0	-	-	-	-	-	-	-	-	-	-	
	7.0	-	-	-	-	3.29b	-	-	-	-	-	
	6.0	-	-	-	-	3.13b	3.13b	3.18b	-	-	-	
	5.0	-	-	-	-	3.52a	3.42b	3.39b	3.28b	3.23b	2.73a	
	4.0	-	-	4.66a	4.54a	4.44a	4.12b	3.86b	3.64b	3.45b	3.36b	2.72a
	3.0	-	-	5.77b	6.02b	5.79b	4.98b	4.44b	4.10b	3.81b	3.58b	3.44b
	2.0	7.87a	8.17b	7.80b	7.23b	6.72b	5.79b	5.05b	4.54b	4.13b	3.82b	3.60b
	1.0	8.24a	10.00	9.32b	8.22b	7.19b	6.22b	5.44b	4.84b	4.39b	4.02b	3.72b
	0.0	10.00	10.00	10.00	8.48b	7.23b	6.29b	5.56b	4.97b	4.49b	4.09b	3.72b
	-1.0	10.00	10.00	10.00	8.57b	7.31b	6.36b	5.62b	5.04b	4.55b	3.99b	-
	-2.0	10.00	10.00	10.00	8.78b	7.48b	6.45b	5.59b	4.77b	3.94b	-	-
	-3.0	10.00	10.00	9.29b	7.60b	6.29b	-	-	-	-	-	-
	-4.0	-	-	-	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	3 of 45

# RATED LIFT CAPACITY CHART

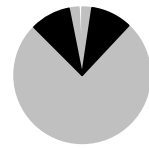
RIS 1530


Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>1bU</b>	<b>ROAD</b>	+/- 10° - +/- 45° Over Osc End		<b>66%</b>

**RADIUS**

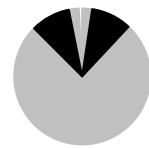
<b>MINIMUM LOADS</b>	<b>HEIGHT</b>	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	1.75	-	-	-	-	-
		6.0	-	-	-	-	-	1.76	1.49	1.27	-	-	-
		5.0	-	-	-	-	2.05	1.72	1.46	1.26	1.09	0.94	-
		4.0	-	-	2.91	2.33	1.94	1.64	1.41	1.22	1.06	0.93	0.81
		3.0	-	-	2.79	2.19	1.80	1.55	1.34	1.16	1.02	0.90	0.79
		2.0	4.91	3.47	2.63	2.08	1.69	1.45	1.27	1.11	0.98	0.87	0.77
		1.0	4.54	3.26	2.50	1.98	1.62	1.40	1.22	1.07	0.95	0.85	0.75
		0.0	4.45	3.19	2.44	1.94	1.61	1.38	1.20	1.05	0.93	0.83	0.74
		-1.0	4.42	3.18	2.43	1.95	1.62	1.37	1.19	1.04	0.92	0.83	-
		-2.0	4.45	3.21	2.47	1.98	1.64	1.39	1.20	1.06	0.94	-	-
		-3.0	4.34	3.33	2.57	2.07	1.73	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1bU</b>	<b>ROAD</b>	+/- 10° - +/- 45° Over Osc End		<b>66%</b>

**RADIUS**

<b>MAXIMUM LOADS</b>	<b>HEIGHT</b>	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	1.75	-	-	-	-	-
		6.0	-	-	-	-	-	1.76	1.51	1.28	-	-	-
		5.0	-	-	-	-	2.05	1.74	1.50	1.30	1.11	0.94	-
		4.0	-	-	2.94	2.40	2.01	1.71	1.48	1.30	1.11	0.95	0.81
		3.0	-	-	2.87	2.35	1.97	1.69	1.47	1.29	1.10	0.94	0.81
		2.0	4.91	3.63	2.84	2.32	1.95	1.68	1.46	1.27	1.08	0.93	0.79
		1.0	4.65	3.50	2.79	2.29	1.93	1.65	1.42	1.23	1.05	0.90	0.77
		0.0	4.60	3.40	2.69	2.21	1.86	1.58	1.37	1.18	1.00	0.87	0.75
		-1.0	4.59	3.37	2.65	2.16	1.81	1.54	1.31	1.13	0.97	0.84	-
		-2.0	4.61	3.38	2.65	2.15	1.77	1.49	1.26	1.09	0.95	-	-
		-3.0	4.41	3.36	2.61	2.10	1.74	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	4 of 45

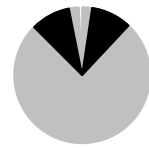
# RATED LIFT CAPACITY CHART


# RIS 1530

Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

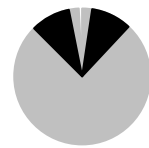
Duty	Config	Sector	Osc Axle	Safety
<b>1bL</b>	<b>ROAD</b>	+/- 10° - +/- 45° Over Osc End		<b>66%</b>

		RADIUS										
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
MINIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-
	7.0	-	-	-	-	-	2.81a	-	-	-	-	-
	6.0	-	-	-	-	-	2.95	2.52b	2.19	-	-	-
	5.0	-	-	-	-	3.43b	2.91	2.50	2.18	1.92	1.69	-
	4.0	-	-	4.45a	3.97b	3.32	2.83	2.44	2.14	1.89	1.68	1.50
	3.0	-	-	4.67b	3.84	3.17	2.72	2.37	2.08	1.85	1.65	1.48
	2.0	7.87a	5.79b	4.62b	3.72	3.06	2.63	2.30	2.03	1.81	1.62	1.46
	1.0	5.73a	5.58a	4.52	3.61	2.98	2.57	2.25	1.99	1.77	1.59	1.44
	0.0	6.71a	5.77a	4.46	3.56	2.97	2.55	2.22	1.96	1.75	1.58	1.43
	-1.0	8.31	5.84	4.46	3.58	2.98	2.54	2.22	1.96	1.75	1.57	-
	-2.0	8.34	5.88	4.50	3.61	3.00	2.56	2.23	1.97	1.76	-	-
	-3.0	8.22	6.02	4.61	3.71	3.09	-	-	-	-	-	-
	-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1bL</b>	<b>ROAD</b>	+/- 10° - +/- 45° Over Osc End		<b>66%</b>

		RADIUS										
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
MAXIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-
	7.0	-	-	-	-	-	2.94	-	-	-	-	-
	6.0	-	-	-	-	-	2.95	2.54	2.20	-	-	-
	5.0	-	-	-	-	3.44	2.93	2.53	2.22	1.93	1.69	-
	4.0	-	-	4.66a	4.05	3.39	2.89	2.52	2.22	1.94	1.70	1.50
	3.0	-	-	4.91	3.99	3.35	2.87	2.50	2.21	1.93	1.69	1.49
	2.0	7.87a	6.30	4.88b	3.97	3.33b	2.86	2.50	2.19	1.91	1.68	1.48
	1.0	8.24a	6.21	4.84	3.94	3.31	2.83	2.45	2.15	1.87	1.65	1.46
	0.0	8.51	6.10	4.73	3.85	3.23	2.76	2.40	2.09	1.82	1.62	1.44
	-1.0	8.50	6.06	4.69	3.80	3.19	2.72	2.34	2.04	1.79	1.59	-
	-2.0	8.53	6.07	4.69	3.79	3.15	2.67	2.29	2.01	1.77	-	-
	-3.0	8.30	6.04	4.65	3.74	3.10	-	-	-	-	-	-
	-4.0	-	-	-	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	5 of 45

# RATED LIFT CAPACITY CHART

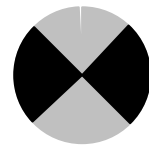
RIS 1530


Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>1cU</b>	<b>ROAD</b>	+/- 45° - +/- 135°		<b>66%</b>

**RADIUS**

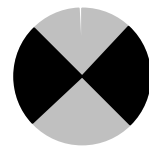
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MINIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	1.75	-	-	-	-	
		6.0	-	-	-	-	-	1.76	1.49	1.27	-	-	-
		5.0	-	-	-	-	2.05	1.72	1.46	1.26	1.09	0.94	-
		4.0	-	-	2.91	2.33	1.94	1.64	1.41	1.22	1.06	0.93	0.81
		3.0	-	-	2.79	2.19	1.80	1.55	1.34	1.16	1.02	0.90	0.79
		2.0	4.91	3.47	2.63	2.08	1.69	1.45	1.27	1.11	0.98	0.87	0.77
		1.0	4.54	3.26	2.50	1.98	1.62	1.40	1.22	1.07	0.95	0.85	0.75
		0.0	4.45	3.19	2.44	1.94	1.61	1.38	1.20	1.05	0.93	0.83	0.74
		-1.0	4.42	3.18	2.43	1.95	1.62	1.37	1.19	1.04	0.92	0.83	-
		-2.0	4.45	3.21	2.47	1.98	1.64	1.39	1.20	1.06	0.94	-	-
		-3.0	4.34	3.33	2.57	2.07	1.73	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1cU</b>	<b>ROAD</b>	+/- 45° - +/- 135°		<b>66%</b>

**RADIUS**

		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MAXIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	1.75	-	-	-	-	
		6.0	-	-	-	-	-	1.76	1.51	1.28	-	-	-
		5.0	-	-	-	-	2.05	1.74	1.50	1.30	1.11	0.94	-
		4.0	-	-	2.94	2.40	2.01	1.71	1.48	1.30	1.11	0.95	0.81
		3.0	-	-	2.87	2.35	1.97	1.69	1.47	1.29	1.10	0.94	0.81
		2.0	4.91	3.63	2.84	2.32	1.95	1.68	1.46	1.27	1.08	0.93	0.79
		1.0	4.65	3.50	2.79	2.29	1.93	1.65	1.42	1.23	1.05	0.90	0.77
		0.0	4.60	3.40	2.69	2.21	1.86	1.58	1.37	1.18	1.00	0.87	0.75
		-1.0	4.59	3.37	2.65	2.16	1.81	1.54	1.31	1.13	0.97	0.84	-
		-2.0	4.61	3.38	2.65	2.15	1.77	1.49	1.26	1.09	0.95	-	-
		-3.0	4.41	3.36	2.61	2.10	1.74	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	6 of 45

# RATED LIFT CAPACITY CHART

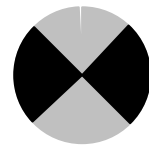
RIS 1530


Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>1cL</b>	<b>ROAD</b>	+/- 45° - +/- 135°		<b>66%</b>

**RADIUS**

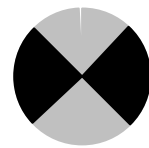
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MINIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	2.81a	-	-	-	-	
		6.0	-	-	-	-	-	2.95	2.52b	2.19	-	-	-
		5.0	-	-	-	-	3.43b	2.91	2.50	2.18	1.92	1.69	-
		4.0	-	-	4.45a	3.97b	3.32	2.83	2.44	2.14	1.89	1.68	1.50
		3.0	-	-	4.67b	3.84	3.17	2.72	2.37	2.08	1.85	1.65	1.48
		2.0	7.87a	5.79b	4.62b	3.72	3.06	2.63	2.30	2.03	1.81	1.62	1.46
		1.0	5.73a	5.58a	4.52	3.61	2.98	2.57	2.25	1.99	1.77	1.59	1.44
		0.0	6.71a	5.77a	4.46	3.56	2.97	2.55	2.22	1.96	1.75	1.58	1.43
		-1.0	8.31	5.84	4.46	3.58	2.98	2.54	2.22	1.96	1.75	1.57	-
		-2.0	8.34	5.88	4.50	3.61	3.00	2.56	2.23	1.97	1.76	-	-
		-3.0	8.22	6.02	4.61	3.71	3.09	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1cL</b>	<b>ROAD</b>	+/- 45° - +/- 135°		<b>66%</b>

**RADIUS**

		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MAXIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	2.94	-	-	-	-	
		6.0	-	-	-	-	-	2.95	2.54	2.20	-	-	-
		5.0	-	-	-	-	3.44	2.93	2.54	2.22	1.93	1.69	-
		4.0	-	-	4.66a	4.05	3.39	2.89	2.52	2.22	1.94	1.70	1.50
		3.0	-	-	4.91	3.99	3.35	2.87	2.50	2.21	1.93	1.70	1.49
		2.0	7.87a	6.30	4.88b	3.97	3.33b	2.86	2.50	2.19	1.91	1.68	1.48
		1.0	8.24a	6.21	4.84	3.94	3.31	2.83	2.45	2.15	1.87	1.65	1.46
		0.0	8.51	6.10	4.73	3.85	3.23	2.76	2.40	2.09	1.82	1.62	1.44
		-1.0	8.50	6.06	4.69	3.80	3.19	2.72	2.34	2.04	1.79	1.59	-
		-2.0	8.53	6.07	4.69	3.79	3.15	2.67	2.29	2.01	1.78	-	-
		-3.0	8.30	6.04	4.65	3.74	3.10	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	7 of 45

# RATED LIFT CAPACITY CHART

RIS 1530


Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>1dU</b>	<b>ROAD</b>	+/- 135° - +/- 160° Over Fixed End		<b>66%</b>

**RADIUS**

<b>MINIMUM LOADS</b>	<b>HEIGHT</b>	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	2.81a	-	-	-	-	-
		6.0	-	-	-	-	-	2.96b	2.52b	2.63a	-	-	-
		5.0	-	-	-	-	3.43b	2.92b	2.51b	2.24b	2.42a	2.43a	-
		4.0	-	-	4.45a	3.97b	3.34b	2.86b	2.47b	2.16b	2.62b	2.59a	2.39a
		3.0	-	-	4.67b	3.86b	3.26b	2.80b	2.44b	2.16b	2.71a	2.29a	2.62a
		2.0	7.87a	5.79b	4.62b	3.82b	3.23b	2.79b	2.44b	2.69b	2.47a	2.39a	2.68a
		1.0	5.73a	5.58a	5.86a	4.59b	3.90b	3.53b	3.45b	2.88a	2.74a	2.75a	2.89a
		0.0	6.71a	5.77a	5.61a	5.74a	5.51b	4.92b	4.31a	3.12a	3.78a	3.10a	2.85a
		-1.0	9.63a	9.03a	8.46b	7.30b	6.65b	5.77a	5.08a	3.85a	4.02a	3.66a	-
		-2.0	10.00	10.00	8.53b	7.07b	6.00b	5.37b	4.86b	4.34b	3.73a	-	-
		-3.0	9.60b	10.00	8.73b	7.24b	6.18b	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1dU</b>	<b>ROAD</b>	+/- 135° - +/- 160° Over Fixed End		<b>66%</b>

**RADIUS**

<b>MAXIMUM LOADS</b>	<b>HEIGHT</b>	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	3.29b	-	-	-	-	-
		6.0	-	-	-	-	-	3.13b	3.13b	3.18b	-	-	-
		5.0	-	-	-	-	3.52a	3.42b	3.39b	3.28b	3.23b	2.73a	-
		4.0	-	-	4.66a	4.54a	4.44a	4.12b	3.86b	3.64b	3.45b	3.36b	2.72a
		3.0	-	-	5.77b	6.02b	5.79b	4.98b	4.44b	4.10b	3.81b	3.58b	3.44b
		2.0	7.87a	8.17b	7.80b	7.23b	6.72b	5.79b	5.05b	4.54b	4.13b	3.82b	3.60b
		1.0	8.24a	10.00	9.32b	8.22b	7.19b	6.22b	5.44b	4.84b	4.39b	4.02b	3.72b
		0.0	10.00	10.00	10.00	8.48b	7.23b	6.29b	5.56b	4.97b	4.49b	4.09b	3.72b
		-1.0	10.00	10.00	10.00	8.57b	7.31b	6.36b	5.62b	5.04b	4.55b	3.99b	-
		-2.0	10.00	10.00	10.00	8.78b	7.48b	6.45b	5.59b	4.77b	3.94b	-	-
		-3.0	10.00	10.00	9.29b	7.60b	6.29b	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	8 of 45



# RATED LIFT CAPACITY CHART

RIS 1530


Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>1dL</b>	<b>ROAD</b>	+/- 135° - +/- 160° Over Fixed End		<b>66%</b>

**RADIUS**

		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MINIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	2.81a	-	-	-	-	
		6.0	-	-	-	-	-	2.95	2.52b	2.19	-	-	-
		5.0	-	-	-	-	3.43b	2.91	2.50	2.18	1.92	1.69	-
		4.0	-	-	4.45a	3.97b	3.32	2.83	2.44	2.14	1.89	1.68	1.50
		3.0	-	-	4.67b	3.84	3.17	2.72	2.37	2.08	1.85	1.65	1.48
		2.0	7.87a	5.79b	4.62b	3.72	3.06	2.63	2.30	2.03	1.81	1.62	1.46
		1.0	5.73a	5.58a	4.52	3.61	2.98	2.57	2.25	1.99	1.77	1.59	1.44
		0.0	6.71a	5.77a	4.46	3.56	2.97	2.55	2.22	1.96	1.75	1.58	1.43
		-1.0	8.31	5.84	4.46	3.58	2.98	2.54	2.22	1.96	1.75	1.57	-
		-2.0	8.34	5.88	4.50	3.61	3.00	2.56	2.23	1.97	1.76	-	-
		-3.0	8.22	6.02	4.61	3.71	3.09	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1dL</b>	<b>ROAD</b>	+/- 135° - +/- 160° Over Fixed End		<b>66%</b>

**RADIUS**

		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MAXIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	2.94	-	-	-	-	
		6.0	-	-	-	-	-	2.95	2.54	2.20	-	-	-
		5.0	-	-	-	-	3.44	2.93	2.54	2.22	1.93	1.69	-
		4.0	-	-	4.66a	4.05	3.39	2.89	2.52	2.22	1.94	1.70	1.50
		3.0	-	-	4.91	3.99	3.35	2.87	2.50	2.21	1.93	1.70	1.49
		2.0	7.87a	6.30	4.88b	3.97	3.33b	2.86	2.50	2.19	1.91	1.68	1.48
		1.0	8.24a	6.21	4.84	3.94	3.31	2.83	2.45	2.15	1.87	1.65	1.46
		0.0	8.51	6.10	4.73	3.85	3.23	2.76	2.40	2.09	1.82	1.62	1.44
		-1.0	8.50	6.06	4.69	3.80	3.19	2.72	2.34	2.04	1.79	1.59	-
		-2.0	8.53	6.07	4.69	3.79	3.15	2.67	2.29	2.01	1.78	-	-
		-3.0	8.30	6.04	4.65	3.74	3.10	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	9 of 45

# RATED LIFT CAPACITY CHART


RIS 1530

Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>1eU</b>	<b>ROAD</b>	+/- 20° Over Fixed End		<b>66%</b>

		RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MINIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	2.81a	-	-	-	-	-	
		6.0	-	-	-	-	2.96b	2.52b	2.63a	-	-	-	
		5.0	-	-	-	3.43b	2.92b	2.51b	2.24b	2.42a	2.43a	-	
		4.0	-	-	4.45a	3.97b	3.34b	2.86b	2.47b	2.16b	2.62b	2.59a	2.39a
		3.0	-	-	4.67b	3.86b	3.26b	2.80b	2.44b	2.16b	2.71a	2.29a	2.62a
		2.0	7.87a	5.79b	4.62b	3.82b	3.23b	2.79b	2.44b	2.69b	2.47a	2.39a	2.68a
		1.0	5.73a	5.58a	5.86a	4.59b	3.90b	3.53b	3.45b	2.88a	2.74a	2.75a	2.89a
		0.0	6.71a	5.77a	5.61a	5.74a	5.51b	4.92b	4.31a	3.12a	3.78a	3.10a	2.85a
		-1.0	9.63a	9.03a	8.46b	7.30b	6.65b	5.77a	5.08a	3.85a	4.02a	3.66a	-
		-2.0	10.00	10.00	8.53b	7.07b	6.00b	5.37b	4.86b	4.34b	3.73a	-	-
		-3.0	9.60b	10.00	8.73b	7.24b	6.18b	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1eU</b>	<b>ROAD</b>	+/- 20° Over Fixed End		<b>66%</b>

		RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MAXIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	3.29b	-	-	-	-	-	
		6.0	-	-	-	-	3.13b	3.13b	3.18b	-	-	-	
		5.0	-	-	-	3.52a	3.42b	3.39b	3.28b	3.23b	2.73a	-	
		4.0	-	-	4.66a	4.54a	4.44a	4.12b	3.86b	3.64b	3.45b	3.36b	2.72a
		3.0	-	-	5.77b	6.02b	5.79b	4.98b	4.44b	4.10b	3.81b	3.58b	3.44b
		2.0	7.87a	8.17b	7.80b	7.23b	6.72b	5.79b	5.05b	4.54b	4.13b	3.82b	3.60b
		1.0	8.24a	10.00	9.32b	8.22b	7.19b	6.22b	5.44b	4.84b	4.39b	4.02b	3.72b
		0.0	10.00	10.00	10.00	8.48b	7.23b	6.29b	5.56b	4.97b	4.49b	4.09b	3.72b
		-1.0	10.00	10.00	10.00	8.57b	7.31b	6.36b	5.62b	5.04b	4.55b	3.99b	-
		-2.0	10.00	10.00	10.00	8.78b	7.48b	6.45b	5.59b	4.77b	3.94b	-	-
		-3.0	10.00	10.00	9.29b	7.60b	6.29b	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	10 of 45

# RATED LIFT CAPACITY CHART


RIS 1530

Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>1eL</b>	<b>ROAD</b>	+/- 20° Over Fixed End		<b>66%</b>

		RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MINIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	2.81a	-	-	-	-	-	
		6.0	-	-	-	-	2.96b	2.52b	2.63a	-	-	-	
		5.0	-	-	-	3.43b	2.92b	2.51b	2.24b	2.42a	2.43a	-	
		4.0	-	-	4.45a	3.97b	3.34b	2.86b	2.47b	2.16b	2.62b	2.59a	2.39a
		3.0	-	-	4.67b	3.86b	3.26b	2.80b	2.44b	2.16b	2.71a	2.29a	2.62a
		2.0	7.87a	5.79b	4.62b	3.82b	3.23b	2.79b	2.44b	2.69b	2.47a	2.39a	2.68a
		1.0	5.73a	5.58a	5.86a	4.59b	3.90b	3.53b	3.45b	2.88a	2.74a	2.75a	2.89a
		0.0	6.71a	5.77a	5.61a	5.74a	5.51b	4.92b	4.31a	3.12a	3.78a	3.10a	2.85a
		-1.0	9.63a	9.03a	8.46b	7.30b	6.65b	5.77a	5.08a	3.85a	4.02a	3.66a	-
		-2.0	10.00	10.00	8.53b	7.07b	6.00b	5.37b	4.86b	4.34b	3.73a	-	-
		-3.0	9.60b	10.00	8.73b	7.24b	6.18b	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1eL</b>	<b>ROAD</b>	+/- 20° Over Fixed End		<b>66%</b>

		RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MAXIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	3.29b	-	-	-	-	-	
		6.0	-	-	-	-	3.13b	3.13b	3.18b	-	-	-	
		5.0	-	-	-	3.52a	3.42b	3.39b	3.28b	3.23b	2.73a	-	
		4.0	-	-	4.66a	4.54a	4.44a	4.12b	3.86b	3.64b	3.45b	3.36b	2.72a
		3.0	-	-	5.77b	6.02b	5.79b	4.98b	4.44b	4.10b	3.81b	3.58b	3.44b
		2.0	7.87a	8.17b	7.80b	7.23b	6.72b	5.79b	5.05b	4.54b	4.13b	3.82b	3.60b
		1.0	8.24a	10.00	9.32b	8.22b	7.19b	6.22b	5.44b	4.84b	4.39b	4.02b	3.72b
		0.0	10.00	10.00	10.00	8.48b	7.23b	6.29b	5.56b	4.97b	4.49b	4.09b	3.72b
		-1.0	10.00	10.00	10.00	8.57b	7.31b	6.36b	5.62b	5.04b	4.55b	3.99b	-
		-2.0	10.00	10.00	10.00	8.78b	7.48b	6.45b	5.59b	4.77b	3.94b	-	-
		-3.0	10.00	10.00	9.29b	7.60b	6.29b	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-





NOTES	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
PAGE	11 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

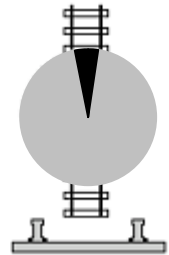
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2aU</b>	<b>RAIL</b>	<b>+/- 10° Over Osc End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.36	2.05	-	-	-	-
6.0	-	-	-	-	-	2.37	2.07	1.82	1.61	-	-
5.0	-	-	-	-	2.68	2.33	2.04	1.81	1.61	1.44	-
4.0	-	-	3.62	3.01	2.59	2.26	1.99	1.77	1.58	1.42	1.28
3.0	-	-	3.52	2.91	2.47	2.18	1.93	1.72	1.55	1.40	1.27
2.0	-	4.19	3.39	2.82	2.39	2.10	1.87	1.68	1.52	1.37	1.25
1.0	5.21	4.06	3.29	2.75	2.34	2.06	1.84	1.65	1.49	1.35	1.23
0.0	5.16	4.02	3.25	2.72	2.34	2.05	1.82	1.63	1.47	1.34	1.23
-1.0	5.14	4.01	3.26	2.73	2.34	2.05	1.82	1.63	1.47	1.34	-
-2.0	5.17	4.04	3.29	2.76	2.37	2.07	1.83	1.64	1.49	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

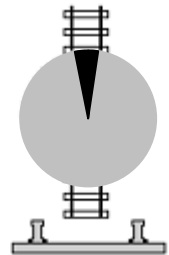


Duty	Config	Sector	Osc Axle	Safety
<b>2aU</b>	<b>RAIL</b>	<b>+/- 10° Over Osc End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.37	2.06	-	-	-	-
6.0	-	-	-	-	-	2.37	2.09	1.83	1.61	-	-
5.0	-	-	-	-	2.70	2.35	2.08	1.85	1.63	1.44	-
4.0	-	-	3.64	3.08	2.66	2.33	2.06	1.84	1.63	1.44	1.29
3.0	-	-	3.59	3.04	2.63	2.31	2.05	1.84	1.62	1.44	1.28
2.0	-	4.35	3.58	3.03	2.62	2.30	2.05	1.81	1.60	1.42	1.27
1.0	5.30	4.24	3.52	2.99	2.59	2.27	2.00	1.78	1.57	1.39	1.25
0.0	5.26	4.17	3.45	2.92	2.53	2.22	1.96	1.73	1.53	1.37	1.23
-1.0	5.26	4.15	3.42	2.89	2.50	2.18	1.91	1.69	1.50	1.35	-
-2.0	5.28	4.16	3.43	2.88	2.46	2.14	1.88	1.67	1.49	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	12 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

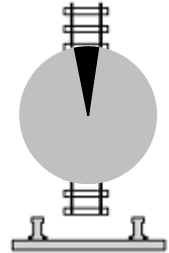
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2aL</b>	<b>RAIL</b>	<b>+/- 10° Over Osc End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.95b	2.47a	-	-	-	-
6.0	-	-	-	-	-	2.95b	2.53b	2.65a	2.36	-	-
5.0	-	-	-	-	3.42b	2.91b	2.50b	2.17b	2.36	2.10	-
4.0	-	-	4.78b	3.95b	3.32b	2.85b	2.47b	2.16b	2.16a	2.08	1.87
3.0	-	-	4.65b	3.85b	3.26b	2.80b	2.44b	2.16b	2.28	2.05	1.85
2.0	-	5.80b	4.63b	3.82b	3.23b	2.79b	2.52b	2.51	2.24	2.01	1.82
1.0	5.93a	5.49a	5.54	4.45	3.69	3.18	2.78	2.47	2.21	1.99	1.80
0.0	6.80a	5.79a	5.49	4.41	3.68	3.16	2.76	2.44	2.19	1.97	1.79
-1.0	10.00	7.17	5.49	4.42	3.69	3.16	2.76	2.44	2.18	1.98	-
-2.0	10.00	7.22	5.54	4.47	3.72	3.18	2.78	2.46	2.21	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

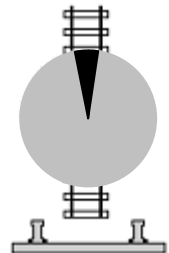


Duty	Config	Sector	Osc Axle	Safety
<b>2aL</b>	<b>RAIL</b>	<b>+/- 10° Over Osc End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	3.21b	2.85a	-	-	-	-
6.0	-	-	-	-	-	3.13b	3.09	2.70	2.36	-	-
5.0	-	-	-	-	3.58a	3.53	3.07	2.70	2.38	2.10	-
4.0	-	-	5.28b	4.85	4.07	3.49	3.04	2.69	2.38	2.10	1.87
3.0	-	-	5.88b	4.79b	4.02	3.45	3.02	2.67	2.37	2.10	1.86
2.0	-	7.58	5.86	4.77	4.01	3.45	3.02	2.68	2.35	2.07	1.85
1.0	9.13a	7.53	5.87	4.79	4.02	3.45	3.00	2.63	2.31	2.04	1.82
0.0	10.00	7.43	5.77	4.70	3.94	3.39	2.94	2.57	2.26	2.01	1.80
-1.0	10.00	7.40	5.73	4.65	3.90	3.34	2.88	2.52	2.22	1.98	-
-2.0	10.00	7.41	5.74	4.64	3.85	3.28	2.84	2.49	2.21	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	13 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

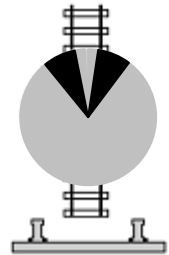
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2bU</b>	<b>RAIL</b>	+/- 10° - +/- 40° Over Osc End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
8.0	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	-	1.63	1.36	-	-	-	-	
6.0	-	-	-	-	-	1.63	1.38	1.18	1.01	-	-	
5.0	-	-	-	-	1.88	1.58	1.35	1.16	1.00	0.87	-	
4.0	-	-	2.68	2.13	1.78	1.51	1.29	1.12	0.97	0.85	0.75	
3.0	-	-	2.56	2.01	1.64	1.41	1.22	1.07	0.94	0.82	0.73	
2.0	-	3.17	2.41	1.91	1.55	1.33	1.16	1.02	0.90	0.80	0.71	
1.0	4.19	3.00	2.29	1.82	1.49	1.29	1.12	0.98	0.87	0.78	0.69	
0.0	4.12	2.95	2.25	1.79	1.49	1.27	1.10	0.97	0.86	0.76	0.68	
-1.0	4.09	2.94	2.25	1.80	1.49	1.27	1.10	0.96	0.85	0.76	-	
-2.0	4.14	2.98	2.29	1.84	1.52	1.29	1.11	0.98	0.87	-	-	
-3.0	-	-	-	-	-	-	-	-	-	-	-	
-4.0	-	-	-	-	-	-	-	-	-	-	-	

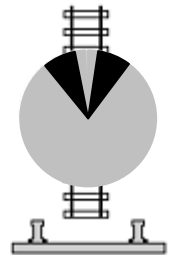


Duty	Config	Sector	Osc Axle	Safety
<b>2bU</b>	<b>RAIL</b>	+/- 10° - +/- 40° Over Osc End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
8.0	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	-	1.63	1.36	-	-	-	-	
6.0	-	-	-	-	-	1.63	1.40	1.19	1.01	-	-	
5.0	-	-	-	-	1.90	1.61	1.39	1.21	1.02	0.87	-	
4.0	-	-	2.71	2.21	1.85	1.58	1.37	1.20	1.03	0.88	0.75	
3.0	-	-	2.65	2.17	1.82	1.56	1.36	1.20	1.01	0.87	0.74	
2.0	-	3.37	2.64	2.16	1.81	1.55	1.35	1.17	0.99	0.85	0.73	
1.0	4.30	3.22	2.56	2.11	1.77	1.51	1.30	1.13	0.96	0.82	0.71	
0.0	4.26	3.14	2.48	2.03	1.71	1.46	1.26	1.07	0.92	0.80	0.69	
-1.0	4.25	3.12	2.45	2.00	1.67	1.42	1.20	1.03	0.89	0.77	-	
-2.0	4.28	3.13	2.46	1.98	1.63	1.37	1.17	1.01	0.87	-	-	
-3.0	-	-	-	-	-	-	-	-	-	-	-	
-4.0	-	-	-	-	-	-	-	-	-	-	-	





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	14 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

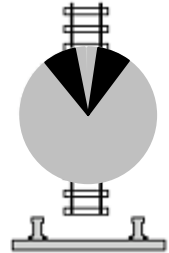
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2bL</b>	<b>RAIL</b>	+/- 10° - +/- 40° Over Osc End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.94	2.47a	-	-	-	-
6.0	-	-	-	-	-	2.94	2.49	2.14	1.84	-	-
5.0	-	-	-	-	3.42b	2.87	2.45	2.11	1.83	1.60	-
4.0	-	-	4.78b	3.95b	3.28	2.77	2.37	2.05	1.79	1.58	1.40
3.0	-	-	4.65b	3.80	3.07	2.63	2.27	1.98	1.74	1.54	1.37
2.0	-	5.80b	4.63b	3.64	2.94	2.51	2.18	1.91	1.69	1.50	1.34
1.0	5.93a	5.49a	4.47	3.51	2.86	2.44	2.12	1.86	1.65	1.47	1.32
0.0	6.80a	5.79a	4.40	3.46	2.85	2.42	2.09	1.83	1.63	1.45	1.31
-1.0	8.65	5.90	4.41	3.48	2.86	2.42	2.09	1.83	1.62	1.46	-
-2.0	8.73	5.97	4.47	3.54	2.90	2.45	2.11	1.85	1.65	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

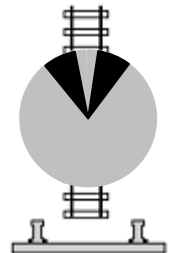


Duty	Config	Sector	Osc Axle	Safety
<b>2bL</b>	<b>RAIL</b>	+/- 10° - +/- 40° Over Osc End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.94	2.47	-	-	-	-
6.0	-	-	-	-	-	2.95	2.52	2.15	1.84	-	-
5.0	-	-	-	-	3.45	2.91	2.50b	2.17	1.87	1.61	-
4.0	-	-	5.08	4.08	3.38	2.87	2.47	2.16	1.87	1.61	1.40
3.0	-	-	4.98	4.01	3.34	2.84	2.45	2.16	1.85	1.60	1.39
2.0	-	6.51	4.96	3.99	3.32	2.83	2.46	2.12	1.82	1.58	1.37
1.0	9.00	6.35	4.88	3.94	3.27	2.78	2.38	2.06	1.77	1.53	1.34
0.0	8.93	6.23	4.76	3.82	3.17	2.70	2.32	1.99	1.72	1.50	1.32
-1.0	8.92	6.19	4.71	3.77	3.12	2.64	2.24	1.93	1.67	1.47	-
-2.0	8.97	6.21	4.72	3.75	3.06	2.56	2.19	1.90	1.65	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	15 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

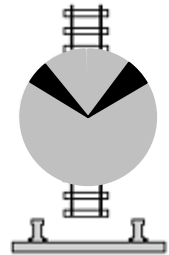
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2cU</b>	<b>RAIL</b>	<b>+/- 40° - +/- 60° Over Osc End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.40	1.18	-	-	-	-
6.0	-	-	-	-	-	1.40	1.19	1.02	0.87	-	-
5.0	-	-	-	-	1.61	1.36	1.16	1.00	0.87	0.75	-
4.0	-	-	2.23	1.79	1.51	1.29	1.11	0.97	0.84	0.74	0.64
3.0	-	-	2.12	1.69	1.39	1.20	1.05	0.92	0.81	0.71	0.63
2.0	-	2.55	1.98	1.59	1.30	1.13	0.99	0.87	0.77	0.69	0.61
1.0	3.23	2.41	1.88	1.52	1.25	1.09	0.95	0.84	0.75	0.66	0.59
0.0	3.17	2.36	1.84	1.48	1.25	1.07	0.93	0.82	0.73	0.65	0.58
-1.0	3.15	2.35	1.84	1.50	1.25	1.07	0.93	0.82	0.73	0.65	-
-2.0	3.19	2.39	1.88	1.53	1.28	1.09	0.95	0.83	0.75	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

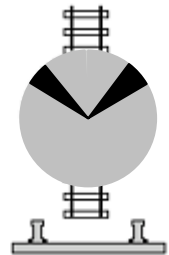


Duty	Config	Sector	Osc Axle	Safety
<b>2cU</b>	<b>RAIL</b>	<b>+/- 40° - +/- 60° Over Osc End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.41	1.18	-	-	-	-
6.0	-	-	-	-	-	1.41	1.21	1.03	0.87	-	-
5.0	-	-	-	-	1.62	1.39	1.20	1.05	0.89	0.76	-
4.0	-	-	2.26	1.87	1.58	1.36	1.19	1.04	0.89	0.76	0.65
3.0	-	-	2.20	1.83	1.55	1.34	1.17	1.04	0.88	0.75	0.64
2.0	-	2.72	2.19	1.82	1.54	1.34	1.17	1.01	0.86	0.73	0.63
1.0	3.32	2.60	2.12	1.78	1.51	1.30	1.12	0.97	0.83	0.71	0.61
0.0	3.29	2.53	2.05	1.70	1.45	1.25	1.08	0.92	0.79	0.68	0.59
-1.0	3.28	2.51	2.02	1.67	1.42	1.21	1.03	0.89	0.76	0.66	-
-2.0	3.31	2.52	2.03	1.66	1.38	1.16	0.99	0.86	0.75	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	16 of 45



# RATED LIFT CAPACITY CHART

# RIS 1530

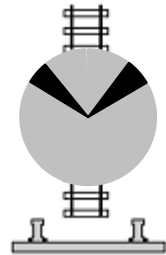
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2cL</b>	<b>RAIL</b>	$\pm 40^\circ - \pm 60^\circ$ Over Osc End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.56	2.16	-	-	-	-
6.0	-	-	-	-	-	2.56	2.18	1.87	1.61	-	-
5.0	-	-	-	-	2.98	2.50	2.14	1.84	1.60	1.40	-
4.0	-	-	4.28	3.39	2.82	2.40	2.06	1.79	1.56	1.38	1.21
3.0	-	-	4.11	3.23	2.63	2.27	1.97	1.72	1.51	1.34	1.19
2.0	-	5.15	3.89	3.08	2.51	2.15	1.88	1.65	1.47	1.30	1.16
1.0	5.93a	4.90	3.73	2.97	2.43	2.09	1.82	1.60	1.42	1.27	1.14
0.0	6.80a	4.83	3.67	2.92	2.42	2.07	1.80	1.58	1.40	1.25	1.13
-1.0	6.79	4.82	3.68	2.94	2.44	2.07	1.80	1.58	1.40	1.26	-
-2.0	6.85	4.88	3.73	2.99	2.47	2.10	1.82	1.60	1.43	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

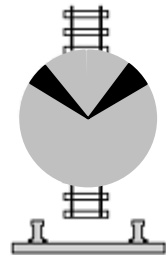


Duty	Config	Sector	Osc Axle	Safety
<b>2cL</b>	<b>RAIL</b>	$\pm 40^\circ - \pm 60^\circ$ Over Osc End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.57	2.16	-	-	-	-
6.0	-	-	-	-	-	2.57	2.20	1.88	1.61	-	-
5.0	-	-	-	-	2.99	2.54	2.19	1.91	1.63	1.40	-
4.0	-	-	4.32	3.51	2.93	2.50	2.17	1.90	1.64	1.41	1.22
3.0	-	-	4.23	3.45	2.89	2.47	2.15	1.90	1.62	1.40	1.21
2.0	-	5.42	4.21	3.43	2.87	2.46	2.15	1.86	1.59	1.37	1.19
1.0	7.09	5.22	4.11	3.37	2.82	2.41	2.08	1.80	1.54	1.33	1.17
0.0	7.02	5.11	4.00	3.26	2.73	2.33	2.01	1.73	1.49	1.30	1.14
-1.0	7.02	5.07	3.95	3.21	2.68	2.28	1.94	1.67	1.45	1.27	-
-2.0	7.06	5.09	3.96	3.19	2.62	2.21	1.89	1.64	1.43	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	17 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

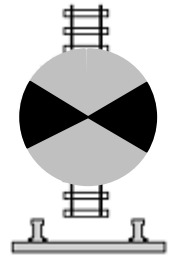
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2dU</b>	<b>RAIL</b>	+/- 60° - +/- 120°		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.20	1.00	-	-	-	-
6.0	-	-	-	-	-	1.20	1.01	0.86	0.72	-	-
5.0	-	-	-	-	1.38	1.16	0.98	0.84	0.72	0.62	-
4.0	-	-	1.92	1.53	1.28	1.09	0.93	0.80	0.69	0.60	0.52
3.0	-	-	1.81	1.43	1.16	1.00	0.87	0.75	0.66	0.57	0.50
2.0	-	2.18	1.67	1.33	1.08	0.93	0.81	0.71	0.62	0.55	0.48
1.0	2.75	2.03	1.57	1.25	1.02	0.88	0.77	0.68	0.60	0.53	0.46
0.0	2.69	1.98	1.53	1.22	1.02	0.87	0.75	0.66	0.58	0.51	0.46
-1.0	2.67	1.98	1.53	1.23	1.03	0.87	0.75	0.66	0.58	0.52	-
-2.0	2.71	2.01	1.57	1.27	1.05	0.89	0.77	0.67	0.60	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

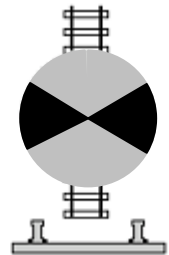


Duty	Config	Sector	Osc Axle	Safety
<b>2dU</b>	<b>RAIL</b>	+/- 60° - +/- 120°		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.20	1.00	-	-	-	-
6.0	-	-	-	-	-	1.21	1.03	0.87	0.72	-	-
5.0	-	-	-	-	1.40	1.19	1.02	0.88	0.74	0.62	-
4.0	-	-	1.95	1.61	1.36	1.16	1.01	0.88	0.75	0.62	0.52
3.0	-	-	1.89	1.57	1.33	1.14	0.99	0.88	0.73	0.62	0.52
2.0	-	2.35	1.88	1.55	1.32	1.14	0.99	0.85	0.71	0.60	0.50
1.0	2.84	2.22	1.81	1.51	1.28	1.10	0.94	0.81	0.68	0.57	0.48
0.0	2.81	2.15	1.74	1.44	1.22	1.05	0.90	0.76	0.64	0.55	0.46
-1.0	2.80	2.13	1.71	1.41	1.19	1.01	0.85	0.72	0.61	0.52	-
-2.0	2.83	2.14	1.72	1.40	1.15	0.96	0.81	0.70	0.60	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	18 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

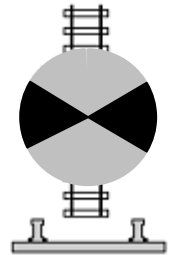
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2dL</b>	<b>RAIL</b>	+/- 60° - +/- 120°		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.73	1.45	-	-	-	-
6.0	-	-	-	-	-	1.73	1.47	1.26	1.07	-	-
5.0	-	-	-	-	2.00	1.69	1.44	1.24	1.07	0.93	-
4.0	-	-	2.82	2.25	1.88	1.60	1.38	1.19	1.04	0.91	0.80
3.0	-	-	2.69	2.13	1.73	1.50	1.30	1.14	1.00	0.88	0.78
2.0	-	3.30	2.53	2.01	1.64	1.41	1.23	1.08	0.96	0.85	0.75
1.0	4.28	3.12	2.40	1.92	1.58	1.36	1.19	1.05	0.93	0.82	0.74
0.0	4.21	3.06	2.35	1.88	1.57	1.34	1.17	1.03	0.91	0.81	0.73
-1.0	4.19	3.05	2.36	1.90	1.58	1.34	1.17	1.02	0.91	0.81	-
-2.0	4.23	3.10	2.40	1.94	1.61	1.36	1.18	1.04	0.93	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

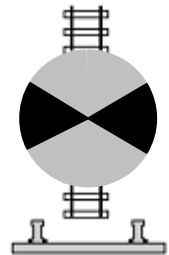


Duty	Config	Sector	Osc Axle	Safety
<b>2dL</b>	<b>RAIL</b>	+/- 60° - +/- 120°		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.74	1.46	-	-	-	-
6.0	-	-	-	-	-	1.74	1.49	1.27	1.08	-	-
5.0	-	-	-	-	2.02	1.72	1.48	1.29	1.10	0.93	-
4.0	-	-	2.86	2.34	1.97	1.68	1.46	1.28	1.10	0.93	0.80
3.0	-	-	2.79	2.29	1.93	1.66	1.45	1.28	1.08	0.93	0.79
2.0	-	3.51	2.77	2.28	1.92	1.66	1.45	1.25	1.06	0.91	0.78
1.0	4.41	3.35	2.69	2.23	1.88	1.61	1.39	1.20	1.02	0.87	0.76
0.0	4.36	3.27	2.60	2.14	1.81	1.55	1.34	1.14	0.98	0.85	0.74
-1.0	4.36	3.24	2.57	2.11	1.77	1.51	1.28	1.10	0.94	0.82	-
-2.0	4.39	3.26	2.58	2.09	1.73	1.45	1.24	1.07	0.93	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	19 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

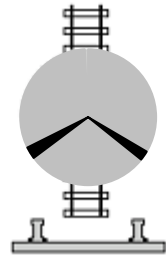
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2eU</b>	<b>RAIL</b>	+/- 120° - +/- 130° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.56	1.31	-	-	-	-
6.0	-	-	-	-	-	1.56	1.32	1.13	0.96	-	-
5.0	-	-	-	-	1.81	1.52	1.29	1.11	0.96	0.83	-
4.0	-	-	2.58	2.05	1.70	1.44	1.24	1.07	0.93	0.81	0.71
3.0	-	-	2.46	1.93	1.57	1.35	1.17	1.02	0.89	0.78	0.69
2.0	-	3.05	2.31	1.82	1.48	1.27	1.11	0.97	0.86	0.76	0.67
1.0	4.02	2.88	2.19	1.74	1.42	1.22	1.06	0.93	0.83	0.73	0.65
0.0	3.95	2.82	2.15	1.71	1.42	1.21	1.05	0.92	0.81	0.72	0.65
-1.0	3.93	2.81	2.15	1.72	1.42	1.21	1.04	0.91	0.81	0.72	-
-2.0	3.97	2.86	2.19	1.76	1.45	1.23	1.06	0.93	0.83	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

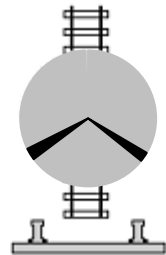


Duty	Config	Sector	Osc Axle	Safety
<b>2eU</b>	<b>RAIL</b>	+/- 120° - +/- 130° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.57	1.31	-	-	-	-
6.0	-	-	-	-	-	1.57	1.34	1.14	0.96	-	-
5.0	-	-	-	-	1.83	1.55	1.33	1.15	0.98	0.83	-
4.0	-	-	2.61	2.13	1.78	1.52	1.31	1.15	0.98	0.83	0.71
3.0	-	-	2.55	2.09	1.75	1.50	1.30	1.15	0.97	0.83	0.71
2.0	-	3.24	2.54	2.07	1.74	1.49	1.30	1.12	0.95	0.81	0.69
1.0	4.14	3.10	2.46	2.03	1.70	1.45	1.25	1.08	0.91	0.78	0.67
0.0	4.09	3.02	2.38	1.95	1.63	1.40	1.20	1.02	0.87	0.75	0.65
-1.0	4.09	2.99	2.35	1.91	1.60	1.36	1.15	0.98	0.84	0.73	-
-2.0	4.12	3.01	2.36	1.90	1.56	1.30	1.11	0.96	0.83	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	20 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

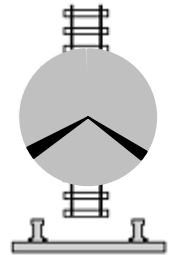
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2eL</b>	<b>RAIL</b>	+/- 120° - +/- 130° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.89	2.42	-	-	-	-
6.0	-	-	-	-	-	2.89	2.44	2.10	1.80	-	-
5.0	-	-	-	-	3.38	2.82	2.40	2.07	1.80	1.57	-
4.0	-	-	4.78b	3.90	3.22	2.71	2.33	2.01	1.76	1.55	1.37
3.0	-	-	4.65b	3.73	3.02	2.58	2.22	1.94	1.70	1.51	1.34
2.0	-	5.80b	4.56	3.57	2.89	2.46	2.13	1.87	1.65	1.47	1.31
1.0	5.93a	5.49a	4.38	3.44	2.80	2.39	2.07	1.82	1.61	1.44	1.29
0.0	6.80a	5.79a	4.32	3.39	2.79	2.37	2.05	1.79	1.59	1.42	1.28
-1.0	8.50	5.79	4.32	3.41	2.80	2.37	2.05	1.79	1.59	1.42	-
-2.0	8.57	5.86	4.39	3.47	2.85	2.40	2.07	1.81	1.62	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

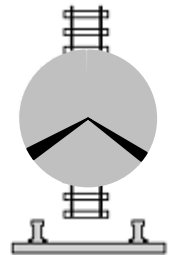


Duty	Config	Sector	Osc Axle	Safety
<b>2eL</b>	<b>RAIL</b>	+/- 120° - +/- 130° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.89	2.43	-	-	-	-
6.0	-	-	-	-	-	2.90	2.47	2.11	1.80	-	-
5.0	-	-	-	-	3.40	2.86	2.46	2.14	1.83	1.58	-
4.0	-	-	5.01	4.02	3.33	2.82	2.43	2.13	1.84	1.58	1.37
3.0	-	-	4.91b	3.95	3.28	2.79	2.42	2.13	1.82	1.57	1.36
2.0	-	6.41	4.88b	3.93	3.26	2.78	2.41	2.08	1.79	1.54	1.34
1.0	8.85	6.24	4.80	3.87	3.21	2.72	2.34	2.02	1.74	1.50	1.31
0.0	8.77	6.12	4.67	3.75	3.12	2.65	2.27	1.95	1.68	1.47	1.29
-1.0	8.77	6.07	4.62	3.70	3.06	2.59	2.19	1.89	1.63	1.43	-
-2.0	8.82	6.10	4.64	3.68	3.00	2.51	2.14	1.86	1.62	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	21 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

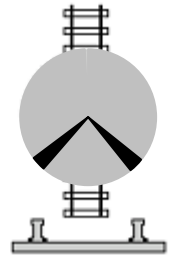
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2fU</b>	<b>RAIL</b>	+/- 130° - +/- 140° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.76	1.48	-	-	-	-
6.0	-	-	-	-	-	1.76	1.49	1.27	1.09	-	-
5.0	-	-	-	-	2.05	1.71	1.46	1.26	1.09	0.94	-
4.0	-	-	2.94	2.33	1.93	1.64	1.40	1.22	1.06	0.93	0.81
3.0	-	-	2.82	2.21	1.79	1.54	1.33	1.16	1.02	0.90	0.80
2.0	-	3.53	2.66	2.10	1.70	1.46	1.27	1.11	0.98	0.87	0.77
1.0	4.74	3.35	2.54	2.01	1.64	1.41	1.23	1.08	0.95	0.85	0.76
0.0	4.67	3.29	2.49	1.97	1.64	1.39	1.21	1.06	0.94	0.84	0.75
-1.0	4.64	3.28	2.50	1.99	1.64	1.39	1.21	1.06	0.93	0.84	-
-2.0	4.69	3.33	2.54	2.03	1.67	1.41	1.22	1.07	0.96	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

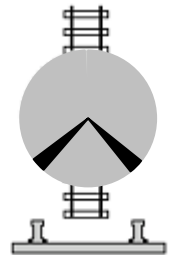


Duty	Config	Sector	Osc Axle	Safety
<b>2fU</b>	<b>RAIL</b>	+/- 130° - +/- 140° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.76	1.48	-	-	-	-
6.0	-	-	-	-	-	1.77	1.51	1.28	1.09	-	-
5.0	-	-	-	-	2.06	1.74	1.50	1.30	1.11	0.95	-
4.0	-	-	2.98	2.41	2.01	1.71	1.48	1.30	1.11	0.95	0.82
3.0	-	-	2.91	2.37	1.98	1.69	1.47	1.30	1.10	0.94	0.81
2.0	-	3.73	2.90	2.35	1.97	1.69	1.47	1.26	1.08	0.92	0.80
1.0	4.87	3.58	2.82	2.31	1.93	1.64	1.41	1.22	1.04	0.89	0.78
0.0	4.82	3.50	2.73	2.22	1.86	1.59	1.37	1.17	1.00	0.87	0.76
-1.0	4.81	3.47	2.70	2.19	1.83	1.55	1.31	1.13	0.97	0.85	-
-2.0	4.85	3.49	2.71	2.17	1.78	1.49	1.27	1.10	0.96	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	22 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

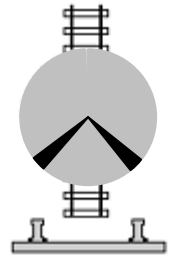
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2fL</b>	<b>RAIL</b>	+/- 130° - +/- 140° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.95b	2.47a	-	-	-	-
6.0	-	-	-	-	-	2.95b	2.53b	2.34	2.01	-	-
5.0	-	-	-	-	3.42b	2.91b	2.50b	2.17b	2.00	1.75	-
4.0	-	-	4.78b	3.95b	3.32b	2.85b	2.47b	2.16b	1.96	1.73	1.52
3.0	-	-	4.65b	3.85b	3.26b	2.80b	2.44b	2.16b	1.91	1.68	1.50
2.0	-	5.80b	4.63b	3.82b	3.23b	2.79b	2.41	2.10	1.86	1.65	1.47
1.0	5.93a	5.49a	5.16	3.99	3.21	2.72	2.35	2.05	1.81	1.61	1.44
0.0	6.80a	5.79a	5.09	3.93	3.20	2.70	2.32	2.02	1.79	1.59	1.43
-1.0	10.00	7.01	5.09	3.95	3.22	2.70	2.32	2.02	1.78	1.60	-
-2.0	10.00	7.09	5.16	4.02	3.26	2.73	2.34	2.04	1.82	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

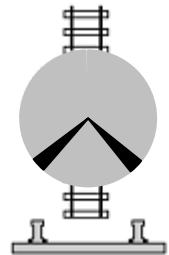


Duty	Config	Sector	Osc Axle	Safety
<b>2fL</b>	<b>RAIL</b>	+/- 130° - +/- 140° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	3.21b	2.72	-	-	-	-
6.0	-	-	-	-	-	3.13b	2.76	2.35	2.01	-	-
5.0	-	-	-	-	3.58a	3.20	2.73	2.37	2.04	1.76	-
4.0	-	-	5.28b	4.56	3.74	3.15	2.70	2.36	2.04	1.76	1.53
3.0	-	-	5.64	4.48	3.69	3.12	2.68	2.35	2.02	1.75	1.52
2.0	-	7.59	5.63	4.46b	3.67	3.11	2.68	2.32	1.99	1.72	1.50
1.0	9.13a	7.52	5.61	4.45	3.65	3.07	2.62	2.26	1.94	1.68	1.47
0.0	10.00	7.38	5.48	4.32	3.55	2.99	2.56	2.19	1.88	1.64	1.44
-1.0	10.00	7.33	5.42	4.26	3.49	2.93	2.47	2.12	1.83	1.61	-
-2.0	10.00	7.36	5.44	4.24	3.43	2.85	2.42	2.09	1.82	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	23 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

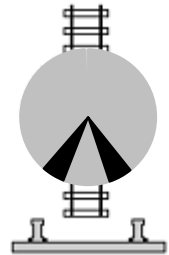
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2gU</b>	<b>RAIL</b>	+/- 140° - +/- 160° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.16	1.82	-	-	-	-
6.0	-	-	-	-	-	2.16	1.84	1.58	1.37	-	-
5.0	-	-	-	-	2.52	2.11	1.81	1.56	1.36	1.19	-
4.0	-	-	3.66	2.89	2.40	2.04	1.75	1.52	1.33	1.18	1.04
3.0	-	-	3.53	2.77	2.25	1.94	1.68	1.47	1.29	1.15	1.02
2.0	-	4.47	3.36	2.65	2.16	1.85	1.61	1.42	1.26	1.12	1.00
1.0	5.93a	4.28	3.23	2.56	2.10	1.80	1.57	1.38	1.23	1.10	0.98
0.0	6.06	4.23	3.19	2.53	2.09	1.79	1.55	1.36	1.21	1.08	0.98
-1.0	6.04	4.22	3.19	2.54	2.10	1.79	1.55	1.36	1.21	1.08	-
-2.0	6.09	4.26	3.24	2.58	2.13	1.81	1.56	1.37	1.23	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

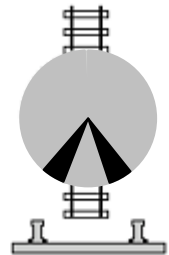


Duty	Config	Sector	Osc Axle	Safety
<b>2gU</b>	<b>RAIL</b>	+/- 140° - +/- 160° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.16	1.82	-	-	-	-
6.0	-	-	-	-	-	2.17	1.86	1.59	1.37	-	-
5.0	-	-	-	-	2.53	2.14	1.85	1.61	1.39	1.20	-
4.0	-	-	3.69	2.98	2.48	2.11	1.83	1.60	1.39	1.20	1.04
3.0	-	-	3.62	2.93	2.45	2.09	1.82	1.60	1.37	1.19	1.04
2.0	-	4.69	3.61	2.92	2.44	2.09	1.81	1.57	1.35	1.17	1.02
1.0	6.28	4.53	3.53	2.87	2.40	2.04	1.76	1.53	1.32	1.14	1.00
0.0	6.23	4.44	3.44	2.79	2.33	1.99	1.71	1.47	1.28	1.12	0.98
-1.0	6.22	4.41	3.40	2.75	2.29	1.95	1.65	1.43	1.24	1.09	-
-2.0	6.26	4.43	3.41	2.73	2.25	1.89	1.62	1.41	1.23	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	24 of 45



# RATED LIFT CAPACITY CHART

# RIS 1530

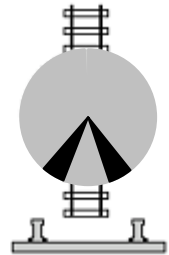
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2gL</b>	<b>RAIL</b>	+/- 140° - +/- 160° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.95b	2.47a	-	-	-	-
6.0	-	-	-	-	-	2.95b	2.53b	2.65a	2.45a	-	-
5.0	-	-	-	-	3.42b	2.91b	2.50b	2.17b	2.42a	2.15	-
4.0	-	-	4.78b	3.95b	3.32b	2.85b	2.47b	2.16b	2.16a	2.12	1.87
3.0	-	-	4.65b	3.85b	3.26b	2.80b	2.44b	2.16b	2.36	2.08	1.85
2.0	-	5.80b	4.63b	3.82b	3.23b	2.79b	2.52b	2.62	2.30	2.04	1.81
1.0	5.93a	5.49a	5.60a	4.90b	4.14	3.46	2.95	2.56	2.25	2.00	1.79
0.0	6.80a	5.79a	5.57a	5.17	4.13	3.43	2.92	2.53	2.23	1.98	1.78
-1.0	10.00	10.00	6.90	5.19	4.14	3.43	2.92	2.53	2.22	1.98	-
-2.0	10.00	10.00	6.98	5.26	4.19	3.46	2.94	2.55	2.26	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

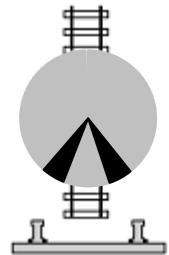


Duty	Config	Sector	Osc Axle	Safety
<b>2gL</b>	<b>RAIL</b>	+/- 140° - +/- 160° Over Fixed End		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	3.21b	2.85a	-	-	-	-
6.0	-	-	-	-	-	3.13b	3.20b	2.88	2.47	-	-
5.0	-	-	-	-	3.58a	3.57b	3.33	2.87	2.49	2.15	-
4.0	-	-	5.28b	5.38b	4.64	3.86	3.29	2.85	2.50	2.16	1.88
3.0	-	-	5.99b	5.65	4.57	3.82	3.26	2.83	2.48	2.15	1.87
2.0	-	8.48a	7.32	5.63b	4.55	3.80	3.25	2.85	2.45	2.12	1.85
1.0	9.13a	10.00	7.37	5.67	4.58	3.83	3.25	2.79	2.39	2.07	1.82
0.0	10.00	10.00	7.35	5.61	4.51	3.75	3.18	2.71	2.33	2.03	1.79
-1.0	10.00	10.00	7.28	5.54	4.45	3.69	3.09	2.64	2.28	2.00	-
-2.0	10.00	10.00	7.30	5.52	4.38	3.59	3.03	2.60	2.26	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	25 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

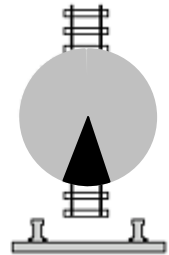
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2hU</b>	<b>RAIL</b>	<b>+/- 20° Over Fixed End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.95b	2.47a	-	-	-	-
6.0	-	-	-	-	-	2.95b	2.53b	2.51	2.25	-	-
5.0	-	-	-	-	3.42b	2.91b	2.50b	2.17b	2.24	2.02	-
4.0	-	-	4.78b	3.95b	3.32b	2.85b	2.47b	2.16b	2.16a	2.01	1.83
3.0	-	-	4.65b	3.85b	3.26b	2.80b	2.44b	2.16b	2.18	1.98	1.81
2.0	-	5.72	4.63b	3.82b	3.23b	2.79b	2.52b	2.37	2.15	1.96	1.79
1.0	5.93a	5.49a	4.56	3.83	3.29	2.91	2.60	2.34	2.12	1.94	1.78
0.0	6.80a	5.54	4.52	3.80	3.29	2.89	2.58	2.32	2.11	1.93	1.77
-1.0	7.04	5.53	4.53	3.82	3.29	2.89	2.58	2.32	2.11	1.93	-
-2.0	7.08	5.56	4.56	3.85	3.32	2.91	2.59	2.33	2.13	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

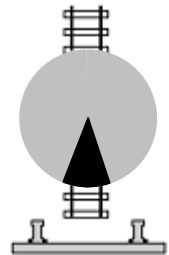


Duty	Config	Sector	Osc Axle	Safety
<b>2hU</b>	<b>RAIL</b>	<b>+/- 20° Over Fixed End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	3.21	2.82	-	-	-	-
6.0	-	-	-	-	-	3.13b	2.84	2.52	2.25	-	-
5.0	-	-	-	-	3.58a	3.18	2.82	2.53	2.26	2.03	-
4.0	-	-	4.90	4.16	3.60	3.16	2.81	2.52	2.26	2.03	1.83
3.0	-	-	4.85	4.11	3.56	3.13	2.79	2.51	2.25	2.02	1.83
2.0	-	5.86	4.84	4.10	3.55	3.13	2.79	2.51	2.24	2.01	1.81
1.0	7.20	5.76	4.79	4.08	3.54	3.11	2.76	2.47	2.20	1.98	1.79
0.0	7.17	5.69	4.72	4.01	3.48	3.06	2.72	2.42	2.17	1.96	1.78
-1.0	7.16	5.67	4.69	3.98	3.45	3.03	2.67	2.38	2.14	1.93	-
-2.0	7.19	5.69	4.70	3.97	3.41	2.98	2.64	2.36	2.13	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	26 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

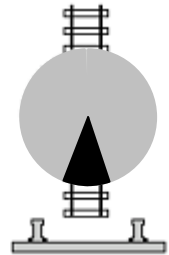
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>2hL</b>	<b>RAIL</b>	<b>+/- 20° Over Fixed End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.95b	2.47a	-	-	-	-
6.0	-	-	-	-	-	2.95b	2.53b	2.65a	2.45a	-	-
5.0	-	-	-	-	3.42b	2.91b	2.50b	2.17b	2.42a	2.52a	-
4.0	-	-	4.78b	3.95b	3.32b	2.85b	2.47b	2.16b	2.16a	2.64a	2.53a
3.0	-	-	4.65b	3.85b	3.26b	2.80b	2.44b	2.16b	2.77a	2.42a	2.28a
2.0	-	5.80b	4.63b	3.82b	3.23b	2.79b	2.52b	2.81b	2.62a	2.65a	2.36a
1.0	5.93a	5.49a	5.60a	4.90b	4.17b	3.77b	3.65b	2.95a	3.07a	3.18a	2.73a
0.0	6.80a	5.79a	5.57a	6.37a	5.80b	5.12b	4.44a	3.68a	3.68a	3.09a	2.83a
-1.0	10.00	10.00	8.47b	7.21b	6.52b	5.14a	5.02a	4.09a	4.28b	3.85a	-
-2.0	10.00	10.00	8.55b	7.08b	6.02b	5.22b	4.74b	4.24b	3.72b	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

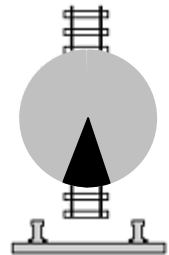


Duty	Config	Sector	Osc Axle	Safety
<b>2hL</b>	<b>RAIL</b>	<b>+/- 20° Over Fixed End</b>		<b>66%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	3.21b	2.85a	-	-	-	-
6.0	-	-	-	-	-	3.13b	3.20b	3.18b	2.75a	-	-
5.0	-	-	-	-	3.58a	3.57b	3.45b	3.34b	3.28b	2.99a	-
4.0	-	-	5.28b	5.38b	4.75b	4.25b	3.91b	3.69b	3.54b	3.39b	2.82a
3.0	-	-	5.99b	6.18b	6.03b	5.14b	4.59b	4.18b	3.88b	3.64b	3.46b
2.0	-	8.48a	8.09b	7.49b	6.84b	5.90b	5.15b	4.60b	4.18b	3.87b	3.63b
1.0	9.13a	10.00	9.52b	8.34b	7.20b	6.24b	5.48b	4.89b	4.42b	4.04b	3.73b
0.0	10.00	10.00	10.00	8.50b	7.24b	6.30b	5.56b	4.97b	4.49b	4.11b	3.69b
-1.0	10.00	10.00	10.00	8.59b	7.33b	6.38b	5.64b	5.07b	4.51b	3.88b	-
-2.0	10.00	10.00	10.00	8.76b	7.45b	6.39b	5.49b	4.60b	3.72b	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached.
	Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	27 of 45

# RATED LIFT CAPACITY CHART

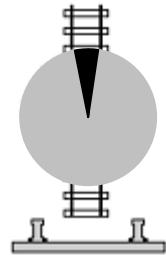
# RIS 1530



Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>3aU</b>	<b>RAIL</b>	<b>+/- 10° Over Osc End</b>		<b>66%</b>
	 50 - 150mm			

### RADIUS

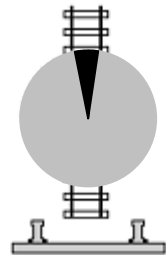
<b>MINIMUM LOADS</b>	<b>HEIGHT</b>	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	1.83	1.57	-	-	-	-
		6.0	-	-	-	-	-	1.83	1.58	1.38	1.21	-	-
		5.0	-	-	-	-	2.08	1.79	1.56	1.37	1.21	1.07	-
		4.0	-	-	2.81	2.32	1.99	1.72	1.51	1.33	1.18	1.05	0.94
		3.0	-	-	2.71	2.22	1.87	1.64	1.45	1.28	1.15	1.03	0.92
		2.0	-	3.23	2.59	2.13	1.79	1.57	1.39	1.24	1.11	1.00	0.90
		1.0	4.01	3.09	2.49	2.06	1.74	1.53	1.35	1.21	1.09	0.98	0.89
		0.0	3.95	3.05	2.45	2.03	1.73	1.51	1.34	1.19	1.07	0.97	0.88
		-1.0	3.94	3.04	2.45	2.04	1.74	1.51	1.34	1.19	1.07	0.97	-
		-2.0	3.97	3.08	2.49	2.07	1.76	1.53	1.35	1.20	1.09	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		



Duty	Config	Sector	Osc Axle	Safety
<b>3aU</b>	<b>RAIL</b>	<b>+/- 10° Over Osc End</b>		<b>66%</b>
	 50 - 150mm			

### RADIUS

<b>MAXIMUM LOADS</b>	<b>HEIGHT</b>	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	1.83	1.57	-	-	-	-
		6.0	-	-	-	-	-	1.84	1.60	1.39	1.21	-	-
		5.0	-	-	-	-	2.09	1.82	1.59	1.41	1.23	1.07	-
		4.0	-	-	2.84	2.39	2.06	1.79	1.58	1.40	1.23	1.07	0.94
		3.0	-	-	2.79	2.35	2.03	1.77	1.57	1.40	1.22	1.07	0.94
		2.0	-	3.39	2.78	2.34	2.02	1.77	1.57	1.38	1.20	1.05	0.93
		1.0	4.09	3.27	2.71	2.30	1.98	1.73	1.52	1.34	1.17	1.02	0.91
		0.0	4.06	3.21	2.65	2.24	1.93	1.68	1.48	1.29	1.13	1.00	0.89
		-1.0	4.06	3.19	2.62	2.20	1.90	1.65	1.43	1.25	1.10	0.98	-
		-2.0	4.08	3.20	2.62	2.19	1.86	1.60	1.40	1.23	1.09	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	28 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

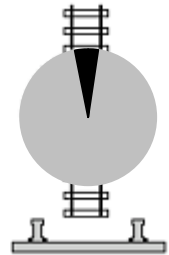
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3aL</b>	<b>RAIL</b>	<b>+/- 10° Over Osc End</b>		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.61	2.25	-	-	-	-
6.0	-	-	-	-	-	2.61	2.27	1.99	1.75	-	-
5.0	-	-	-	-	2.98	2.57	2.24	1.97	1.75	1.55	-
4.0	-	-	4.09	3.37	2.87	2.49	2.18	1.93	1.72	1.54	1.38
3.0	-	-	3.98	3.25	2.73	2.39	2.11	1.87	1.68	1.51	1.36
2.0	-	4.81	3.82	3.14	2.64	2.31	2.04	1.82	1.64	1.48	1.34
1.0	5.93a	4.64	3.70	3.06	2.58	2.26	2.00	1.79	1.61	1.45	1.32
0.0	6.04	4.59	3.66	3.02	2.57	2.24	1.98	1.77	1.59	1.44	1.31
-1.0	6.02	4.58	3.66	3.03	2.58	2.24	1.98	1.76	1.59	1.44	-
-2.0	6.06	4.62	3.71	3.07	2.61	2.26	1.99	1.78	1.61	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

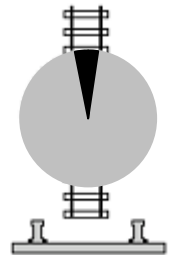


Duty	Config	Sector	Osc Axle	Safety
<b>3aL</b>	<b>RAIL</b>	<b>+/- 10° Over Osc End</b>		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.62	2.26	-	-	-	-
6.0	-	-	-	-	-	2.62	2.29	2.00	1.75	-	-
5.0	-	-	-	-	3.00	2.60	2.28	2.02	1.77	1.56	-
4.0	-	-	4.13	3.45	2.95	2.57	2.26	2.01	1.77	1.56	1.38
3.0	-	-	4.06	3.41	2.92	2.54	2.25	2.01	1.76	1.55	1.38
2.0	-	5.00	4.05	3.39	2.91	2.54	2.25	1.98	1.74	1.53	1.36
1.0	6.21	4.86	3.97	3.35	2.87	2.50	2.19	1.94	1.70	1.50	1.34
0.0	6.17	4.78	3.89	3.27	2.80	2.44	2.14	1.88	1.66	1.48	1.32
-1.0	6.17	4.76	3.86	3.23	2.76	2.40	2.09	1.84	1.62	1.45	-
-2.0	6.19	4.77	3.87	3.22	2.72	2.34	2.05	1.81	1.61	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	29 of 45

# RATED LIFT CAPACITY CHART

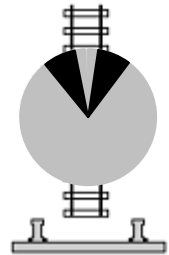
# RIS 1530



Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>3bU</b>	<b>RAIL</b>	+/- 10° - +/- 40° Over Osc End		<b>66%</b>
	 50 - 150mm			

MINIMUM LOADS

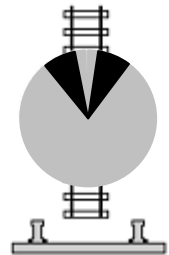
		RADIUS										
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	-
	7.0	-	-	-	-	-	1.31	1.10	-	-	-	-
	6.0	-	-	-	-	-	1.31	1.11	0.96	0.82	-	-
	5.0	-	-	-	-	1.49	1.27	1.09	0.94	0.81	0.71	-
	4.0	-	-	2.03	1.65	1.40	1.20	1.04	0.90	0.79	0.69	0.60
	3.0	-	-	1.93	1.55	1.28	1.12	0.98	0.86	0.75	0.66	0.59
	2.0	-	2.29	1.80	1.46	1.20	1.04	0.92	0.81	0.72	0.64	0.57
	1.0	2.83	2.15	1.70	1.38	1.15	1.00	0.88	0.78	0.69	0.62	0.55
	0.0	2.77	2.11	1.67	1.35	1.14	0.99	0.87	0.76	0.68	0.61	0.55
	-1.0	2.76	2.10	1.67	1.37	1.15	0.99	0.86	0.76	0.68	0.61	-
	-2.0	2.79	2.14	1.70	1.40	1.18	1.01	0.88	0.78	0.70	-	-
	-3.0	-	-	-	-	-	-	-	-	-	-	-
	-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>3bU</b>	<b>RAIL</b>	+/- 10° - +/- 40° Over Osc End		<b>66%</b>
	 50 - 150mm			

MAXIMUM LOADS

		RADIUS										
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	-
	7.0	-	-	-	-	-	1.31	1.10	-	-	-	-
	6.0	-	-	-	-	-	1.31	1.13	0.96	0.82	-	-
	5.0	-	-	-	-	1.50	1.29	1.12	0.98	0.83	0.71	-
	4.0	-	-	2.05	1.72	1.47	1.27	1.11	0.98	0.84	0.71	0.61
	3.0	-	-	2.00	1.68	1.44	1.25	1.10	0.98	0.83	0.71	0.60
	2.0	-	2.44	1.99	1.67	1.43	1.24	1.09	0.95	0.81	0.69	0.59
	1.0	2.91	2.33	1.93	1.63	1.40	1.21	1.05	0.91	0.77	0.66	0.57
	0.0	2.88	2.27	1.86	1.56	1.34	1.16	1.01	0.86	0.74	0.64	0.55
	-1.0	2.88	2.24	1.83	1.53	1.31	1.13	0.96	0.82	0.71	0.62	-
	-2.0	2.90	2.26	1.84	1.52	1.27	1.08	0.92	0.80	0.70	-	-
	-3.0	-	-	-	-	-	-	-	-	-	-	-
	-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	30 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

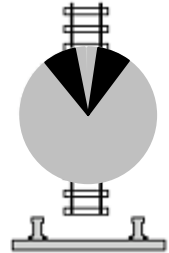
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3bL</b>	<b>RAIL</b>	+/- 10° - +/- 40° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.46	2.03	-	-	-	-
6.0	-	-	-	-	-	2.47	2.05	1.73	1.47	-	-
5.0	-	-	-	-	2.92	2.40	2.01	1.71	1.46	1.25	-
4.0	-	-	4.45	3.39	2.75	2.28	1.93	1.65	1.42	1.23	1.07
3.0	-	-	4.25	3.21	2.53	2.14	1.82	1.57	1.36	1.19	1.04
2.0	-	5.61	3.99	3.03	2.39	2.01	1.73	1.50	1.31	1.15	1.01
1.0	5.93a	5.31	3.80	2.90	2.31	1.94	1.67	1.45	1.27	1.12	0.99
0.0	6.80a	5.21	3.72	2.84	2.30	1.92	1.64	1.42	1.24	1.10	0.98
-1.0	8.14	5.20	3.73	2.86	2.31	1.92	1.64	1.41	1.24	1.10	-
-2.0	8.23	5.27	3.80	2.93	2.35	1.95	1.66	1.44	1.27	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

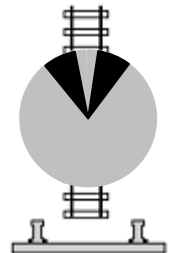


Duty	Config	Sector	Osc Axle	Safety
<b>3bL</b>	<b>RAIL</b>	+/- 10° - +/- 40° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.47	2.04	-	-	-	-
6.0	-	-	-	-	-	2.48	2.08	1.75	1.47	-	-
5.0	-	-	-	-	2.94	2.44	2.07	1.78	1.49	1.26	-
4.0	-	-	4.51	3.53	2.87	2.40	2.04	1.77	1.50	1.26	1.07
3.0	-	-	4.40	3.46	2.82	2.37	2.02	1.77	1.48	1.25	1.07
2.0	-	5.94	4.38	3.43	2.80	2.36	2.02	1.72	1.45	1.23	1.05
1.0	8.57	5.70	4.25	3.36	2.74	2.29	1.94	1.66	1.39	1.18	1.02
0.0	8.47	5.56	4.12	3.23	2.64	2.21	1.87	1.58	1.34	1.15	0.99
-1.0	8.47	5.52	4.06	3.17	2.58	2.15	1.79	1.52	1.29	1.11	-
-2.0	8.53	5.54	4.07	3.15	2.52	2.07	1.74	1.48	1.27	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached.
	Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	31 of 45

# RATED LIFT CAPACITY CHART

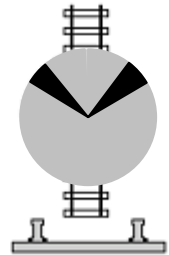
# RIS 1530



Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>3cU</b>	<b>RAIL</b>	$\pm 40^\circ - \pm 60^\circ$ Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

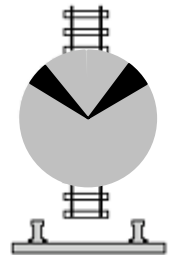
<b>MINIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	1.23	1.02	-	-	-	-
		6.0	-	-	-	-	-	1.23	1.03	0.87	0.73	-	-
		5.0	-	-	-	-	1.43	1.19	1.00	0.85	0.73	0.62	-
		4.0	-	-	2.02	1.59	1.32	1.12	0.95	0.81	0.70	0.60	0.52
		3.0	-	-	1.91	1.48	1.19	1.03	0.88	0.76	0.66	0.57	0.50
		2.0	-	2.33	1.76	1.38	1.11	0.95	0.82	0.72	0.63	0.55	0.48
		1.0	3.02	2.17	1.65	1.30	1.05	0.90	0.78	0.68	0.60	0.53	0.46
		0.0	2.96	2.12	1.61	1.27	1.04	0.89	0.76	0.66	0.58	0.51	0.45
		-1.0	2.93	2.11	1.61	1.28	1.05	0.89	0.76	0.66	0.58	0.51	-
		-2.0	2.98	2.15	1.65	1.32	1.08	0.90	0.78	0.68	0.60	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-		
-4.0	-	-	-	-	-	-	-	-	-	-	-		



Duty	Config	Sector	Osc Axle	Safety
<b>3cU</b>	<b>RAIL</b>	$\pm 40^\circ - \pm 60^\circ$ Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

<b>MAXIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	1.24	1.02	-	-	-	-
		6.0	-	-	-	-	-	1.24	1.05	0.88	0.73	-	-
		5.0	-	-	-	-	1.44	1.22	1.04	0.90	0.75	0.62	-
		4.0	-	-	2.05	1.68	1.40	1.19	1.03	0.89	0.75	0.62	0.52
		3.0	-	-	1.99	1.63	1.37	1.17	1.01	0.89	0.74	0.62	0.51
		2.0	-	2.52	1.98	1.62	1.36	1.16	1.01	0.86	0.72	0.60	0.50
		1.0	3.13	2.38	1.91	1.58	1.32	1.12	0.96	0.82	0.68	0.57	0.48
		0.0	3.09	2.31	1.83	1.50	1.26	1.07	0.92	0.77	0.64	0.55	0.46
		-1.0	3.09	2.28	1.80	1.46	1.22	1.04	0.86	0.73	0.61	0.52	-
		-2.0	3.11	2.30	1.81	1.45	1.18	0.98	0.83	0.71	0.60	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-		
-4.0	-	-	-	-	-	-	-	-	-	-	-		





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

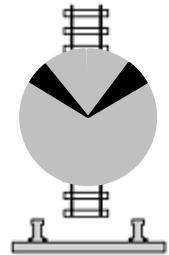
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3cL</b>	<b>RAIL</b>	+/- 40° - +/- 60° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.15	1.78	-	-	-	-
6.0	-	-	-	-	-	2.15	1.80	1.52	1.28	-	-
5.0	-	-	-	-	2.53	2.09	1.75	1.49	1.27	1.09	-
4.0	-	-	3.74	2.89	2.37	1.98	1.68	1.43	1.23	1.07	0.93
3.0	-	-	3.56	2.72	2.16	1.84	1.58	1.36	1.18	1.03	0.90
2.0	-	4.56	3.33	2.56	2.03	1.72	1.49	1.29	1.13	0.99	0.87
1.0	5.93a	4.29	3.15	2.44	1.95	1.66	1.43	1.24	1.09	0.96	0.85
0.0	6.27	4.21	3.08	2.38	1.94	1.63	1.40	1.21	1.07	0.94	0.84
-1.0	6.23	4.19	3.09	2.40	1.95	1.63	1.40	1.21	1.06	0.94	-
-2.0	6.30	4.26	3.15	2.46	1.99	1.66	1.42	1.23	1.09	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

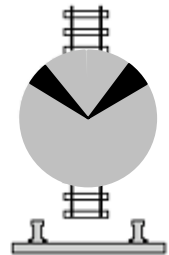


Duty	Config	Sector	Osc Axle	Safety
<b>3cL</b>	<b>RAIL</b>	+/- 40° - +/- 60° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.16	1.78	-	-	-	-
6.0	-	-	-	-	-	2.16	1.82	1.53	1.28	-	-
5.0	-	-	-	-	2.54	2.13	1.81	1.56	1.31	1.10	-
4.0	-	-	3.79	3.02	2.48	2.09	1.79	1.55	1.31	1.10	0.93
3.0	-	-	3.70	2.95	2.43	2.06	1.77	1.55	1.29	1.09	0.92
2.0	-	4.86	3.67	2.93	2.42	2.05	1.76	1.50	1.26	1.06	0.90
1.0	6.58	4.64	3.56	2.86	2.36	1.99	1.69	1.44	1.21	1.02	0.87
0.0	6.50	4.51	3.44	2.74	2.26	1.91	1.63	1.37	1.16	0.99	0.85
-1.0	6.50	4.47	3.38	2.69	2.21	1.86	1.54	1.31	1.11	0.95	-
-2.0	6.55	4.49	3.40	2.67	2.15	1.78	1.49	1.28	1.09	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	33 of 45

# RATED LIFT CAPACITY CHART

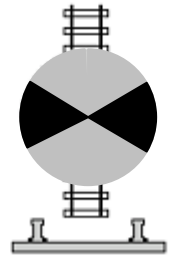
# RIS 1530



Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>3dU</b>	<b>RAIL</b>	+/- 60° - +/- 120°		<b>66%</b>
	 50 - 150mm			

### RADIUS

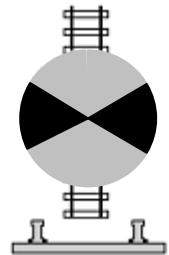
<b>MINIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	1.00	0.83	-	-	-	
		6.0	-	-	-	-	-	1.00	0.84	0.71	0.59	-	
		5.0	-	-	-	-	1.15	0.96	0.81	0.69	0.59	0.49	
		4.0	-	-	1.57	1.25	1.05	0.89	0.76	0.65	0.56	0.48	0.41
		3.0	-	-	1.47	1.16	0.93	0.81	0.70	0.61	0.52	0.45	0.39
		2.0	-	1.74	1.34	1.06	0.86	0.74	0.64	0.56	0.49	0.43	0.37
		1.0	2.14	1.60	1.24	0.99	0.81	0.70	0.61	0.53	0.47	0.41	0.36
		0.0	2.09	1.56	1.21	0.96	0.80	0.68	0.59	0.51	0.45	0.40	0.35
		-1.0	2.07	1.55	1.21	0.97	0.81	0.68	0.59	0.51	0.45	0.40	-
		-2.0	2.10	1.59	1.24	1.01	0.83	0.70	0.60	0.53	0.47	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		



Duty	Config	Sector	Osc Axle	Safety
<b>3dU</b>	<b>RAIL</b>	+/- 60° - +/- 120°		<b>66%</b>
	 50 - 150mm			

### RADIUS

<b>MAXIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	1.00	0.83	-	-	-	
		6.0	-	-	-	-	-	1.01	0.86	0.71	0.59	-	
		5.0	-	-	-	-	1.16	0.99	0.85	0.73	0.61	0.50	
		4.0	-	-	1.60	1.33	1.12	0.96	0.83	0.73	0.61	0.50	0.41
		3.0	-	-	1.54	1.29	1.09	0.94	0.82	0.73	0.60	0.49	0.41
		2.0	-	1.89	1.53	1.28	1.08	0.94	0.82	0.70	0.58	0.48	0.39
		1.0	2.23	1.78	1.47	1.24	1.05	0.90	0.77	0.66	0.54	0.45	0.37
		0.0	2.19	1.72	1.40	1.17	0.99	0.85	0.73	0.61	0.51	0.43	0.36
		-1.0	2.19	1.70	1.37	1.14	0.96	0.82	0.68	0.57	0.48	0.40	-
		-2.0	2.21	1.71	1.38	1.13	0.93	0.77	0.65	0.55	0.47	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	34 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

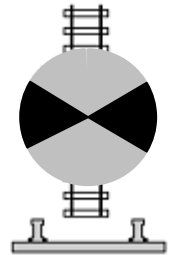
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3dL</b>	<b>RAIL</b>	+/- 60° - +/- 120°		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
8.0	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	-	1.47	1.24	-	-	-	-	
6.0	-	-	-	-	-	1.48	1.26	1.08	0.93	-	-	
5.0	-	-	-	-	1.69	1.43	1.23	1.06	0.92	0.80	-	
4.0	-	-	2.29	1.86	1.58	1.36	1.17	1.02	0.89	0.78	0.68	
3.0	-	-	2.18	1.75	1.44	1.26	1.10	0.97	0.85	0.75	0.67	
2.0	-	2.58	2.03	1.65	1.36	1.18	1.04	0.92	0.82	0.73	0.64	
1.0	3.19	2.43	1.92	1.57	1.30	1.14	1.00	0.88	0.79	0.70	0.63	
0.0	3.14	2.39	1.88	1.53	1.30	1.12	0.98	0.87	0.77	0.69	0.62	
-1.0	3.12	2.38	1.89	1.55	1.30	1.12	0.98	0.86	0.77	0.69	-	
-2.0	3.15	2.41	1.93	1.58	1.33	1.14	0.99	0.88	0.79	-	-	
-3.0	-	-	-	-	-	-	-	-	-	-	-	
-4.0	-	-	-	-	-	-	-	-	-	-	-	

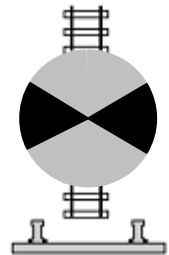


Duty	Config	Sector	Osc Axle	Safety
<b>3dL</b>	<b>RAIL</b>	+/- 60° - +/- 120°		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
8.0	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	-	1.48	1.25	-	-	-	-	
6.0	-	-	-	-	-	1.48	1.28	1.09	0.93	-	-	
5.0	-	-	-	-	1.70	1.46	1.27	1.11	0.94	0.80	-	
4.0	-	-	2.32	1.94	1.66	1.43	1.25	1.10	0.95	0.81	0.69	
3.0	-	-	2.26	1.90	1.62	1.41	1.24	1.10	0.93	0.80	0.68	
2.0	-	2.76	2.25	1.88	1.61	1.40	1.24	1.07	0.91	0.78	0.67	
1.0	3.29	2.63	2.18	1.84	1.58	1.36	1.18	1.03	0.88	0.75	0.65	
0.0	3.25	2.56	2.10	1.77	1.51	1.31	1.14	0.98	0.84	0.72	0.63	
-1.0	3.25	2.54	2.07	1.73	1.48	1.27	1.08	0.93	0.80	0.70	-	
-2.0	3.28	2.55	2.08	1.72	1.44	1.22	1.05	0.91	0.79	-	-	
-3.0	-	-	-	-	-	-	-	-	-	-	-	
-4.0	-	-	-	-	-	-	-	-	-	-	-	





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	35 of 45

# RATED LIFT CAPACITY CHART

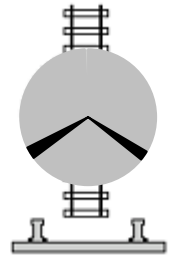
# RIS 1530



Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>3eU</b>	<b>RAIL</b>	+/- 120° - +/- 130° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

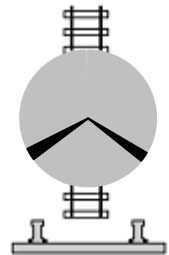
<b>MINIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	1.31	1.09	-	-	-	-
		6.0	-	-	-	-	-	1.31	1.10	0.93	0.79	-	-
		5.0	-	-	-	-	1.52	1.27	1.07	0.91	0.78	0.67	-
		4.0	-	-	2.15	1.70	1.41	1.19	1.02	0.88	0.75	0.65	0.56
		3.0	-	-	2.03	1.58	1.28	1.10	0.95	0.82	0.72	0.63	0.55
		2.0	-	2.48	1.88	1.48	1.19	1.02	0.89	0.78	0.68	0.60	0.53
		1.0	3.22	2.32	1.77	1.40	1.14	0.98	0.85	0.74	0.65	0.58	0.51
		0.0	3.15	2.27	1.73	1.37	1.13	0.96	0.83	0.73	0.64	0.56	0.50
		-1.0	3.13	2.26	1.73	1.38	1.14	0.96	0.83	0.72	0.64	0.57	-
		-2.0	3.17	2.30	1.77	1.42	1.17	0.98	0.84	0.74	0.66	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		



Duty	Config	Sector	Osc Axle	Safety
<b>3eU</b>	<b>RAIL</b>	+/- 120° - +/- 130° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

<b>MAXIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	1.31	1.09	-	-	-	-
		6.0	-	-	-	-	-	1.32	1.12	0.94	0.79	-	-
		5.0	-	-	-	-	1.53	1.30	1.11	0.96	0.80	0.67	-
		4.0	-	-	2.18	1.78	1.49	1.27	1.09	0.95	0.81	0.68	0.57
		3.0	-	-	2.12	1.73	1.46	1.25	1.08	0.95	0.79	0.67	0.56
		2.0	-	2.67	2.10	1.72	1.45	1.24	1.08	0.92	0.77	0.65	0.55
		1.0	3.33	2.53	2.03	1.68	1.41	1.20	1.03	0.88	0.74	0.62	0.53
		0.0	3.28	2.46	1.95	1.60	1.35	1.15	0.98	0.83	0.70	0.60	0.51
		-1.0	3.28	2.43	1.92	1.57	1.31	1.11	0.93	0.79	0.67	0.57	-
		-2.0	3.31	2.45	1.93	1.55	1.27	1.06	0.89	0.77	0.66	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	36 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

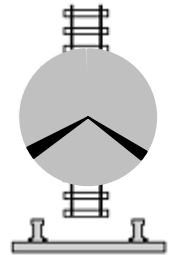
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3eL</b>	<b>RAIL</b>	+/- 120° - +/- 130° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.33	1.95	-	-	-	-
6.0	-	-	-	-	-	2.34	1.97	1.68	1.43	-	-
5.0	-	-	-	-	2.73	2.27	1.93	1.65	1.42	1.23	-
4.0	-	-	3.98	3.11	2.57	2.17	1.85	1.59	1.38	1.21	1.06
3.0	-	-	3.80	2.95	2.38	2.03	1.75	1.52	1.33	1.17	1.03
2.0	-	4.81	3.58	2.79	2.25	1.92	1.66	1.46	1.28	1.13	1.00
1.0	5.93a	4.56	3.41	2.67	2.17	1.85	1.61	1.41	1.24	1.10	0.98
0.0	6.49	4.48	3.34	2.62	2.16	1.83	1.58	1.38	1.22	1.08	0.97
-1.0	6.45	4.47	3.35	2.64	2.17	1.83	1.58	1.38	1.21	1.09	-
-2.0	6.52	4.53	3.41	2.70	2.21	1.86	1.60	1.40	1.24	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

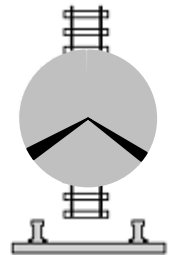


Duty	Config	Sector	Osc Axle	Safety
<b>3eL</b>	<b>RAIL</b>	+/- 120° - +/- 130° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.34	1.95	-	-	-	-
6.0	-	-	-	-	-	2.34	2.00	1.69	1.43	-	-
5.0	-	-	-	-	2.74	2.31	1.98	1.71	1.45	1.24	-
4.0	-	-	4.02	3.24	2.68	2.27	1.96	1.71	1.46	1.24	1.06
3.0	-	-	3.93	3.17	2.64	2.24	1.94	1.71	1.44	1.23	1.05
2.0	-	5.10	3.91	3.15	2.62	2.23	1.94	1.66	1.41	1.20	1.03
1.0	6.77	4.89	3.80	3.09	2.57	2.18	1.86	1.60	1.36	1.16	1.01
0.0	6.70	4.77	3.68	2.97	2.47	2.10	1.80	1.53	1.31	1.13	0.98
-1.0	6.70	4.73	3.63	2.92	2.42	2.05	1.72	1.47	1.26	1.10	-
-2.0	6.75	4.75	3.65	2.90	2.36	1.97	1.67	1.44	1.24	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached.
	Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	37 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

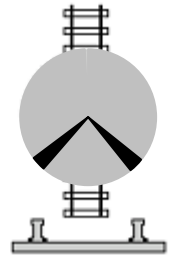
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3fU</b>	<b>RAIL</b>	+/- 130° - +/- 140° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
8.0	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	-	1.44	1.20	-	-	-	-	
6.0	-	-	-	-	-	1.44	1.21	1.03	0.88	-	-	
5.0	-	-	-	-	1.66	1.39	1.18	1.02	0.87	0.75	-	
4.0	-	-	2.34	1.86	1.56	1.32	1.13	0.98	0.85	0.74	0.64	
3.0	-	-	2.23	1.75	1.42	1.23	1.06	0.93	0.81	0.71	0.62	
2.0	-	2.73	2.08	1.65	1.34	1.15	1.00	0.88	0.78	0.68	0.60	
1.0	3.54	2.57	1.97	1.57	1.28	1.10	0.96	0.84	0.75	0.66	0.59	
0.0	3.48	2.52	1.93	1.53	1.27	1.09	0.94	0.83	0.73	0.65	0.58	
-1.0	3.45	2.51	1.93	1.55	1.28	1.09	0.94	0.82	0.73	0.65	-	
-2.0	3.49	2.55	1.97	1.58	1.31	1.11	0.96	0.84	0.75	-	-	
-3.0	-	-	-	-	-	-	-	-	-	-	-	
-4.0	-	-	-	-	-	-	-	-	-	-	-	

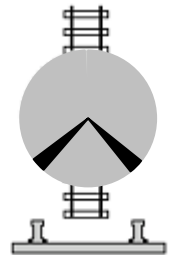


Duty	Config	Sector	Osc Axle	Safety
<b>3fU</b>	<b>RAIL</b>	+/- 130° - +/- 140° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
8.0	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	-	1.44	1.20	-	-	-	-	
6.0	-	-	-	-	-	1.44	1.23	1.04	0.88	-	-	
5.0	-	-	-	-	1.67	1.42	1.22	1.06	0.90	0.76	-	
4.0	-	-	2.37	1.95	1.63	1.39	1.21	1.06	0.90	0.76	0.64	
3.0	-	-	2.31	1.90	1.60	1.37	1.19	1.05	0.89	0.75	0.64	
2.0	-	2.91	2.30	1.89	1.59	1.37	1.19	1.02	0.87	0.73	0.63	
1.0	3.65	2.78	2.23	1.85	1.55	1.33	1.14	0.98	0.83	0.71	0.61	
0.0	3.61	2.70	2.15	1.77	1.49	1.28	1.10	0.93	0.79	0.68	0.59	
-1.0	3.60	2.68	2.12	1.73	1.45	1.24	1.04	0.89	0.76	0.66	-	
-2.0	3.63	2.69	2.13	1.72	1.41	1.18	1.01	0.87	0.75	-	-	
-3.0	-	-	-	-	-	-	-	-	-	-	-	
-4.0	-	-	-	-	-	-	-	-	-	-	-	





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached.
	Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	38 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

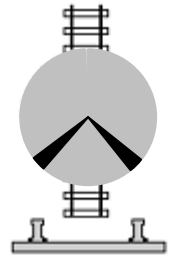
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3fL</b>	<b>RAIL</b>	+/- 130° - +/- 140° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.58	2.17	-	-	-	-
6.0	-	-	-	-	-	2.58	2.19	1.88	1.62	-	-
5.0	-	-	-	-	2.99	2.52	2.15	1.86	1.61	1.41	-
4.0	-	-	4.30	3.41	2.84	2.41	2.08	1.80	1.58	1.39	1.22
3.0	-	-	4.14	3.25	2.65	2.28	1.98	1.73	1.52	1.35	1.20
2.0	-	5.18	3.92	3.10	2.53	2.17	1.89	1.67	1.48	1.31	1.17
1.0	5.93a	4.94	3.76	2.99	2.45	2.11	1.84	1.62	1.44	1.28	1.15
0.0	6.80a	4.86	3.70	2.94	2.44	2.09	1.81	1.59	1.41	1.26	1.14
-1.0	6.83	4.85	3.70	2.96	2.45	2.09	1.81	1.59	1.41	1.27	-
-2.0	6.89	4.91	3.76	3.01	2.49	2.11	1.83	1.61	1.44	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

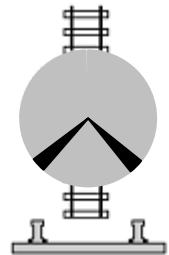


Duty	Config	Sector	Osc Axle	Safety
<b>3fL</b>	<b>RAIL</b>	+/- 130° - +/- 140° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.58	2.17	-	-	-	-
6.0	-	-	-	-	-	2.59	2.22	1.89	1.62	-	-
5.0	-	-	-	-	3.01	2.56	2.20	1.92	1.65	1.41	-
4.0	-	-	4.35	3.53	2.95	2.52	2.18	1.91	1.65	1.42	1.23
3.0	-	-	4.26	3.47	2.91	2.49	2.16	1.91	1.63	1.41	1.22
2.0	-	5.45	4.24	3.45	2.89	2.48	2.16	1.87	1.60	1.38	1.20
1.0	7.13	5.25	4.13	3.39	2.84	2.42	2.09	1.81	1.55	1.34	1.17
0.0	7.07	5.14	4.02	3.28	2.75	2.35	2.03	1.74	1.50	1.31	1.15
-1.0	7.06	5.10	3.97	3.23	2.70	2.30	1.95	1.68	1.46	1.28	-
-2.0	7.11	5.12	3.99	3.21	2.64	2.22	1.90	1.65	1.44	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	39 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

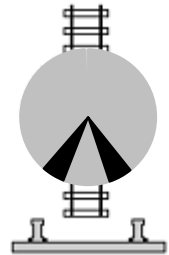
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3gU</b>	<b>RAIL</b>	+/- 140° - +/- 160° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.71	1.44	-	-	-	-
6.0	-	-	-	-	-	1.71	1.45	1.25	1.07	-	-
5.0	-	-	-	-	1.98	1.67	1.42	1.23	1.06	0.93	-
4.0	-	-	2.82	2.24	1.87	1.59	1.37	1.19	1.04	0.91	0.80
3.0	-	-	2.70	2.13	1.74	1.50	1.30	1.14	1.00	0.88	0.78
2.0	-	3.34	2.55	2.02	1.65	1.42	1.24	1.09	0.96	0.86	0.76
1.0	4.42	3.17	2.43	1.94	1.59	1.37	1.20	1.05	0.93	0.83	0.74
0.0	4.35	3.12	2.39	1.90	1.58	1.36	1.18	1.03	0.92	0.82	0.74
-1.0	4.32	3.11	2.39	1.92	1.59	1.36	1.18	1.03	0.91	0.82	-
-2.0	4.37	3.15	2.43	1.96	1.62	1.37	1.19	1.05	0.94	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

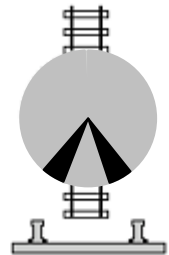


Duty	Config	Sector	Osc Axle	Safety
<b>3gU</b>	<b>RAIL</b>	+/- 140° - +/- 160° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	1.71	1.44	-	-	-	-
6.0	-	-	-	-	-	1.72	1.47	1.26	1.07	-	-
5.0	-	-	-	-	2.00	1.70	1.46	1.27	1.09	0.93	-
4.0	-	-	2.85	2.33	1.95	1.67	1.45	1.27	1.09	0.93	0.80
3.0	-	-	2.79	2.28	1.92	1.65	1.43	1.27	1.08	0.93	0.80
2.0	-	3.54	2.78	2.27	1.91	1.64	1.43	1.24	1.06	0.91	0.78
1.0	4.53	3.40	2.70	2.23	1.87	1.60	1.38	1.19	1.02	0.88	0.76
0.0	4.49	3.32	2.62	2.15	1.80	1.55	1.33	1.14	0.98	0.85	0.74
-1.0	4.48	3.29	2.59	2.11	1.77	1.51	1.28	1.10	0.95	0.83	-
-2.0	4.51	3.30	2.59	2.10	1.73	1.45	1.24	1.08	0.94	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

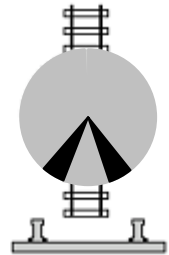
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3gL</b>	<b>RAIL</b>	+/- 140° - +/- 160° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.95b	2.47a	-	-	-	-
6.0	-	-	-	-	-	2.95b	2.53b	2.28	1.97	-	-
5.0	-	-	-	-	3.42b	2.91b	2.50b	2.17b	1.96	1.71	-
4.0	-	-	4.78b	3.95b	3.32b	2.85b	2.47b	2.16b	1.92	1.69	1.49
3.0	-	-	4.65b	3.85b	3.26b	2.80b	2.44	2.12	1.87	1.65	1.47
2.0	-	5.80b	4.63b	3.82b	3.19	2.71	2.35	2.05	1.81	1.61	1.44
1.0	5.93a	5.49a	4.90	3.83	3.10	2.64	2.28	2.00	1.77	1.58	1.42
0.0	6.80a	5.79a	4.83	3.77	3.09	2.62	2.26	1.97	1.75	1.56	1.41
-1.0	9.86	6.56	4.84	3.79	3.10	2.62	2.25	1.97	1.74	1.56	-
-2.0	9.94	6.63	4.91	3.85	3.15	2.64	2.28	1.99	1.78	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

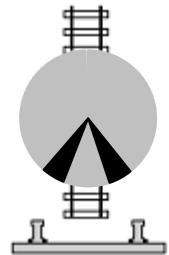


Duty	Config	Sector	Osc Axle	Safety
<b>3gL</b>	<b>RAIL</b>	+/- 140° - +/- 160° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	3.15	2.64	-	-	-	-
6.0	-	-	-	-	-	3.13b	2.68	2.30	1.97	-	-
5.0	-	-	-	-	3.58a	3.11	2.66	2.31	1.99	1.72	-
4.0	-	-	5.28b	4.38	3.62	3.06	2.64	2.30	2.00	1.72	1.50
3.0	-	-	5.40b	4.31	3.57	3.03	2.61	2.29	1.98	1.71	1.49
2.0	-	7.15	5.38b	4.29	3.55	3.02	2.62	2.27	1.95	1.69	1.47
1.0	9.13a	7.04	5.34	4.27	3.53	2.98	2.55	2.21	1.90	1.64	1.44
0.0	10.00	6.90	5.21	4.15	3.43	2.90	2.49	2.13	1.84	1.61	1.42
-1.0	10.00	6.86	5.15	4.09	3.37	2.84	2.41	2.07	1.79	1.57	-
-2.0	10.00	6.88	5.17	4.07	3.31	2.76	2.35	2.04	1.78	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

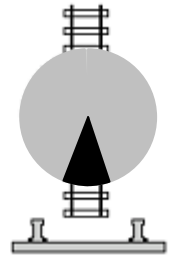
# RIS 1530



Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>3hU</b>	<b>RAIL</b>	<b>+/- 20° Over Fixed End</b>		<b>66%</b>
	 50 - 150mm			

### RADIUS

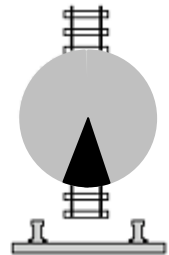
<b>MINIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	2.81	2.44	-	-	-	
		6.0	-	-	-	-	-	2.81	2.45	2.16	1.92	-	
		5.0	-	-	-	-	3.20	2.77	2.42	2.14	1.91	1.71	
		4.0	-	-	4.39	3.63	3.10	2.70	2.37	2.11	1.88	1.70	1.53
		3.0	-	-	4.28	3.52	2.98	2.61	2.31	2.06	1.85	1.67	1.52
		2.0	-	5.18	4.14	3.42	2.89	2.53	2.25	2.01	1.82	1.64	1.50
		1.0	5.93a	5.03	4.04	3.35	2.84	2.49	2.21	1.98	1.79	1.62	1.48
		0.0	6.53	4.99	4.00	3.32	2.84	2.48	2.19	1.96	1.77	1.61	1.47
		-1.0	6.51	4.98	4.00	3.33	2.84	2.48	2.19	1.96	1.77	1.61	-
		-2.0	6.55	5.02	4.04	3.36	2.87	2.49	2.21	1.98	1.79	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>3hU</b>	<b>RAIL</b>	<b>+/- 20° Over Fixed End</b>		<b>66%</b>
	 50 - 150mm			

### RADIUS

<b>MAXIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	2.81	2.44	-	-	-	
		6.0	-	-	-	-	-	2.81	2.47	2.17	1.92	-	
		5.0	-	-	-	-	3.21	2.79	2.46	2.19	1.93	1.72	
		4.0	-	-	4.42	3.70	3.17	2.77	2.44	2.18	1.94	1.72	1.54
		3.0	-	-	4.36	3.66	3.15	2.75	2.43	2.18	1.92	1.71	1.53
		2.0	-	5.35	4.35	3.65	3.14	2.74	2.43	2.15	1.90	1.69	1.52
		1.0	6.68	5.23	4.28	3.61	3.10	2.71	2.38	2.11	1.87	1.67	1.50
		0.0	6.65	5.16	4.21	3.54	3.04	2.66	2.34	2.07	1.83	1.64	1.48
		-1.0	6.64	5.14	4.18	3.50	3.01	2.62	2.29	2.03	1.80	1.62	-
		-2.0	6.67	5.15	4.19	3.49	2.97	2.57	2.25	2.00	1.79	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
		-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	42 of 45

# RATED LIFT CAPACITY CHART

# RIS 1530

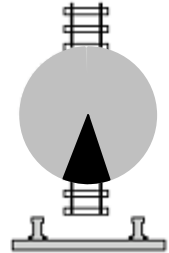
Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift



Duty	Config	Sector	Osc Axle	Safety
<b>3hL</b>	<b>RAIL</b>	<b>+/- 20° Over Fixed End</b>		<b>66%</b>
	 <b>50 - 150mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	2.95b	2.47a	-	-	-	-
6.0	-	-	-	-	-	2.95b	2.53b	2.65a	2.45a	-	-
5.0	-	-	-	-	3.42b	2.91b	2.50b	2.17b	2.42a	2.52a	-
4.0	-	-	4.78b	3.95b	3.32b	2.85b	2.47b	2.16b	2.16a	2.64a	2.53a
3.0	-	-	4.65b	3.85b	3.26b	2.80b	2.44b	2.16b	2.77a	2.42a	2.28a
2.0	-	5.80b	4.63b	3.82b	3.23b	2.79b	2.52b	2.81b	2.62a	2.65a	2.36a
1.0	5.93a	5.49a	5.60a	4.90b	4.17b	3.77b	3.65b	2.95a	3.07a	3.18a	2.73a
0.0	6.80a	5.79a	5.57a	6.37a	5.80b	5.12b	4.44a	3.68a	3.68a	3.09a	2.83a
-1.0	10.00	10.00	8.47b	7.21b	6.52b	5.14a	5.02a	4.09a	4.28b	3.85a	-
-2.0	10.00	10.00	8.55b	7.08b	6.02b	5.22b	4.74b	4.24b	3.72b	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-

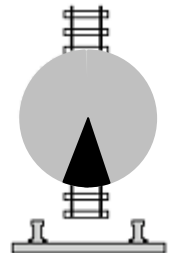


Duty	Config	Sector	Osc Axle	Safety
<b>3hL</b>	<b>RAIL</b>	<b>+/- 20° Over Fixed End</b>		<b>66%</b>
	 <b>50 - 150mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS										
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	-	3.21b	2.85a	-	-	-	-
6.0	-	-	-	-	-	3.13b	3.20b	3.18b	2.75a	-	-
5.0	-	-	-	-	3.58a	3.57b	3.45b	3.34b	3.28b	2.99a	-
4.0	-	-	5.28b	5.38b	4.75b	4.25b	3.91b	3.69b	3.54b	3.39b	2.82a
3.0	-	-	5.99b	6.18b	6.03b	5.14b	4.59b	4.18b	3.88b	3.64b	3.46b
2.0	-	8.48a	8.09b	7.49b	6.84b	5.90b	5.15b	4.60b	4.18b	3.87b	3.63b
1.0	9.13a	10.00	9.52b	8.34b	7.20b	6.24b	5.48b	4.89b	4.42b	4.04b	3.73b
0.0	10.00	10.00	10.00	8.50b	7.24b	6.30b	5.56b	4.97b	4.49b	4.11b	3.69b
-1.0	10.00	10.00	10.00	8.59b	7.33b	6.38b	5.64b	5.07b	4.51b	3.88b	-
-2.0	10.00	10.00	10.00	8.76b	7.45b	6.39b	5.49b	4.60b	3.72b	-	-
-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached.
	Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	43 of 45

# RATED LIFT CAPACITY CHART

RIS 1530



Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>4aU</b>	<b>RAIL</b>	360.0°		<b>66%</b>
	 151 - 178mm			

**RADIUS**

<b>MINIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	0.95	0.78	-	-	-	-
		6.0	-	-	-	-	-	0.95	0.79	0.67	0.55	-	-
		5.0	-	-	-	-	1.09	0.91	0.77	0.65	0.55	0.46	-
		4.0	-	-	1.50	1.19	1.00	0.85	0.72	0.61	0.52	0.45	0.38
		3.0	-	-	1.40	1.09	0.88	0.76	0.66	0.57	0.49	0.42	0.36
		2.0	-	1.65	1.27	1.00	0.80	0.69	0.60	0.52	0.46	0.40	0.34
		1.0	2.03	1.51	1.17	0.93	0.75	0.65	0.56	0.49	0.43	0.37	0.33
		0.0	1.98	1.47	1.13	0.90	0.75	0.64	0.55	0.47	0.41	0.36	0.32
		-1.0	1.96	1.46	1.14	0.91	0.75	0.64	0.55	0.47	0.41	0.36	-
		-2.0	1.99	1.50	1.17	0.94	0.78	0.65	0.56	0.49	0.43	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		



Duty	Config	Sector	Osc Axle	Safety
<b>4aU</b>	<b>RAIL</b>	360.0°		<b>66%</b>
	 151 - 178mm			

**RADIUS**

<b>MAXIMUM LOADS</b>	<b>HEIGHT</b>	RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
		8.0	-	-	-	-	-	-	-	-	-	-	-
		7.0	-	-	-	-	-	0.95	0.78	-	-	-	-
		6.0	-	-	-	-	-	0.96	0.81	0.68	0.55	-	-
		5.0	-	-	-	-	1.11	0.94	0.80	0.69	0.57	0.46	-
		4.0	-	-	1.52	1.26	1.07	0.91	0.79	0.69	0.57	0.47	0.38
		3.0	-	-	1.47	1.23	1.04	0.89	0.78	0.69	0.56	0.46	0.37
		2.0	-	1.80	1.46	1.21	1.03	0.89	0.78	0.66	0.54	0.44	0.36
		1.0	2.12	1.69	1.40	1.18	1.00	0.85	0.73	0.62	0.51	0.42	0.34
		0.0	2.08	1.63	1.33	1.11	0.94	0.81	0.69	0.57	0.47	0.39	0.33
		-1.0	2.08	1.61	1.30	1.08	0.91	0.77	0.64	0.53	0.44	0.37	-
		-2.0	2.10	1.62	1.31	1.06	0.87	0.72	0.61	0.51	0.43	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530



Machine Type	VOLVO EW180BR	Equipment	2.06m + 2.00m + 3.02m
Issue Date	08/05/2013	Serial No.	741012 (Rail Axle 208)
FIRST of CLASS	N/A	Additional Info.	Bucket Pin, Triple, Tandem Lift

Duty	Config	Sector	Osc Axle	Safety
<b>4aL</b>	<b>RAIL</b>	360.0°		<b>66%</b>
	 151 - 178mm			

### RADIUS

		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MINIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	1.45	1.22	-	-	-	-	
		6.0	-	-	-	-	-	1.46	1.23	1.05	0.89	-	-
		5.0	-	-	-	-	1.67	1.41	1.20	1.03	0.89	0.76	-
		4.0	-	-	2.32	1.86	1.56	1.33	1.14	0.99	0.86	0.75	0.65
		3.0	-	-	2.20	1.74	1.42	1.23	1.07	0.93	0.82	0.72	0.63
		2.0	-	2.64	2.04	1.63	1.33	1.15	1.01	0.88	0.78	0.69	0.61
		1.0	3.34	2.48	1.93	1.55	1.27	1.10	0.96	0.85	0.75	0.66	0.59
		0.0	3.27	2.43	1.88	1.51	1.26	1.08	0.94	0.83	0.73	0.65	0.58
		-1.0	3.25	2.42	1.89	1.52	1.27	1.08	0.94	0.82	0.73	0.65	-
		-2.0	3.29	2.46	1.93	1.56	1.30	1.10	0.96	0.84	0.75	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		



Duty	Config	Sector	Osc Axle	Safety
<b>4aL</b>	<b>RAIL</b>	360.0°		<b>66%</b>
	 151 - 178mm			

### RADIUS

		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	
MAXIMUM LOADS	HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	
		7.0	-	-	-	-	-	1.46	1.22	-	-	-	-
		6.0	-	-	-	-	-	1.46	1.25	1.06	0.89	-	-
		5.0	-	-	-	-	1.69	1.44	1.24	1.08	0.91	0.77	-
		4.0	-	-	2.35	1.94	1.64	1.41	1.22	1.07	0.92	0.77	0.65
		3.0	-	-	2.28	1.90	1.61	1.39	1.21	1.07	0.90	0.76	0.65
		2.0	-	2.83	2.27	1.88	1.60	1.38	1.21	1.04	0.88	0.74	0.63
		1.0	3.44	2.69	2.20	1.84	1.56	1.34	1.15	1.00	0.84	0.71	0.61
		0.0	3.40	2.62	2.12	1.76	1.49	1.28	1.11	0.94	0.80	0.69	0.59
		-1.0	3.40	2.59	2.08	1.72	1.45	1.24	1.05	0.90	0.76	0.66	-
		-2.0	3.43	2.60	2.09	1.71	1.41	1.19	1.01	0.87	0.75	-	-
		-3.0	-	-	-	-	-	-	-	-	-	-	-
-4.0	-	-	-	-	-	-	-	-	-	-	-		



<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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