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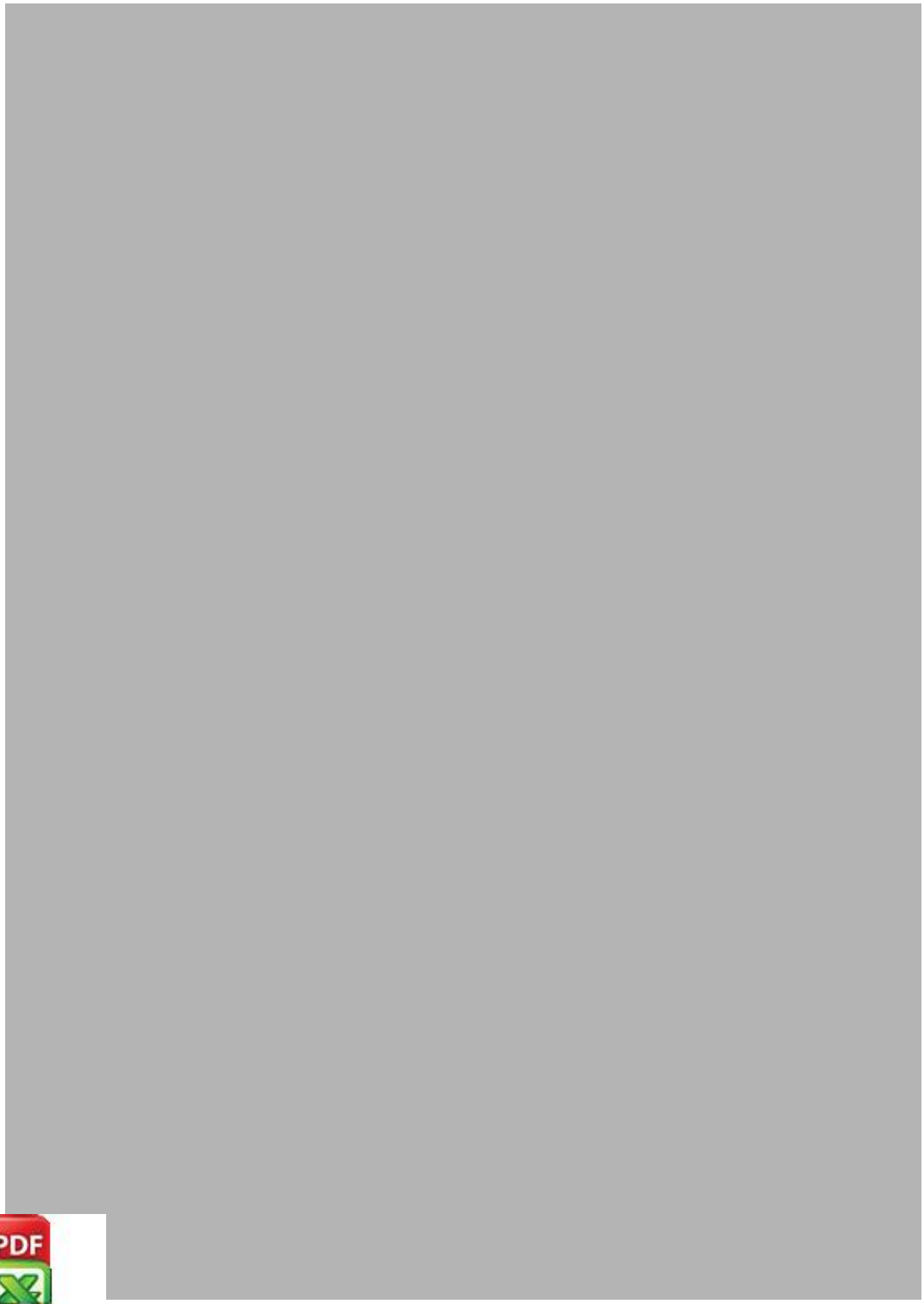
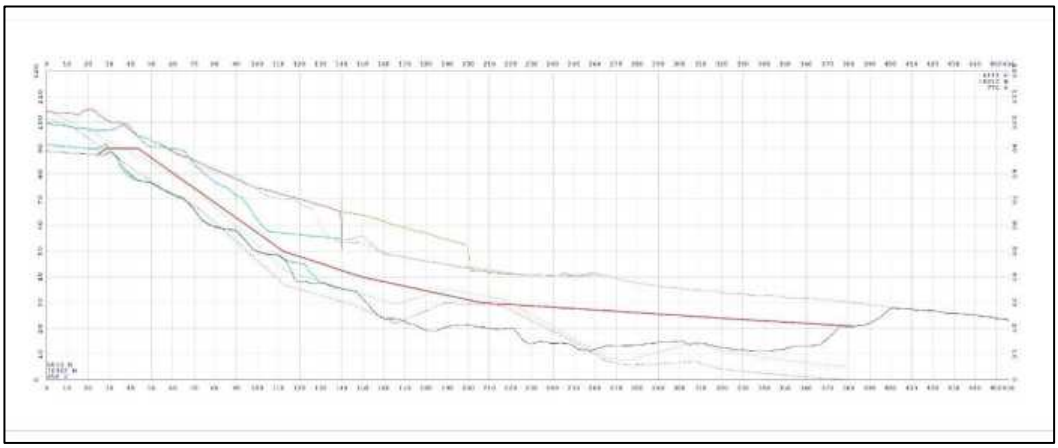
LAMPIRAN

LAMPIRAN 1 PETA LOKASI PENELITIAN

LAMPIRAN 2 *SECTION DISPOSAL SEMI INDUCED FLOW*



Section* A-A' *Disposal* Lembo East 02 Tipe *Semi Induced Flow



Section* B-B' *Disposal* Lembo East 02 Tipe *Semi Induced Flow

LAMPIRAN 3 SPESIFIKASI ALAT BERAT

SPESIFIKASI DUMP TRUCK CATERPILLAR 777D

Protection Agency Tier 1.

Berat – Pendekatan

Target Berat Kerja Gross Alat Berat	163 360 kg	360.143 lb
Berat Kerja – Kosong	64 670 kg	142.573 lb

Spesifikasi Kerja

Kapasitas Payload Nominal	90,4 tonnes	100 ton
Kapasitas Bak – Struck	42,1 m³	55,06 yd³
Kapasitas Bak – SAE 2:1	60,1 m³	78,6 yd³

- Gunakan petunjuk pada Panduan Payload Caterpillar 10/10/20.

Transmisi

Maju 1	10,5 km/jam	6,5 mph
Maju 2	14,3 km/jam	8,9 mph
Maju 3	19,3 km/jam	12 mph
Maju 4	26 km/jam	16,2 mph
Maju 5	34,9 km/jam	21,9 mph
Maju 6	46,6 km/jam	29,4 mph
Maju 7	60,4 km/jam	39,9 mph
Mundur	11,9 km/jam	7,4 mph

- Kecepatan gerak maksimum dengan ban standar 27.00-R49.

Kapasitas – Dual slope – faktor pengisian 100%

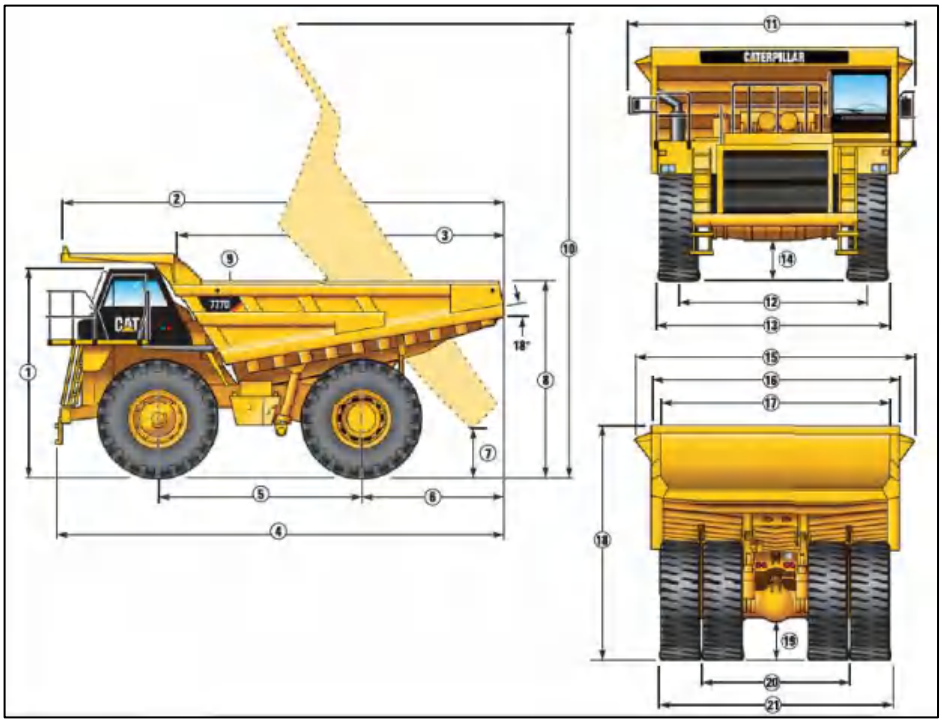
Struck	42,1 m³	55 yd³
Heaped 2:1 (SAE)	60,1 m³	78,6 yd³

Distribusi Berat – Pendekatan

Axle Depan – Kosong	47%
Axle Depan – Bermuatan	33%
Axle Belakang – Kosong	53%
Axle Belakang – Bermuatan	67%

Suspensi

Panjang Langkah Silinder Efektif – Depan	318 mm	12,5 in
Panjang Langkah Silinder Efektif – Belakang	165 mm	6,5 in
Osilasi Axle Belakang	5.4°	



		Dual Slope	
1	Tinggi ke Puncak ROPS – Penuh	4472 mm	14 ft 8 in
1	Tinggi ke Puncak ROPS – Kosong	4567 mm	15 ft
2	Panjang Bak Keseluruhan	9525 mm	31 ft 3 in
3	Panjang Bak Di Bagian Dalam	7234 mm	23 ft 9 in
4	Panjang Keseluruhan	9780 mm	32 ft 1 in
5	Wheelbase	4570 mm	15 ft
6	Axle Belakang ke Pintu Bak Belakang	3020 mm	9 ft 11 in
7	Jarak Buang – Kosong	1164 mm	3 ft 10 in
7	Jarak Buang – Bermuatan	1062 mm	3 ft 6 in
8	Tinggi Pemuatan – Kosong	4380 mm	14 ft 4 in
9	Kedalaman Bak Di Bagian Dalam – Maks	1898 mm	6 ft 3 in
10	Tinggi Keseluruhan – Bak Naik	10 059 mm	33 ft

		Dual Slope	
11	Lebar Pengoperasian	6105 mm	20 ft
12	Lebar Ban Depan pada Garis Sumbu	4173 mm	13 ft 8 in
13	Lebar Ban Depan Keseluruhan	4961 mm	13 ft 3 in
14	Jarak Tutup Pelindung Engine – Kosong	700 mm	2 ft 4 in
15	Lebar Kanopi Keseluruhan	6048 mm	19 ft 10 i
16	Lebar Bak Di Bagian Luar	5524 mm	18 ft 2 in
17	Lebar Bak Di Bagian Dalam	5200 mm	17 ft 1 in
18	Tinggi Kanopi Depan – Kosong	5147 mm	16 ft 10 i
18	Tinggi Kanopi Depan – Bermuatan	5045 mm	16 ft 6 in
19	Jarak Axle Belakang – Kosong	750 mm	2 ft 6 in
20	Lebar Ban Belakang Dual Di Garis Sumbu	3576 mm	11 ft 9 in
21	Lebar Ban Belakang Dual Keseluruhan	5262 mm	17 ft 3 in

Ban

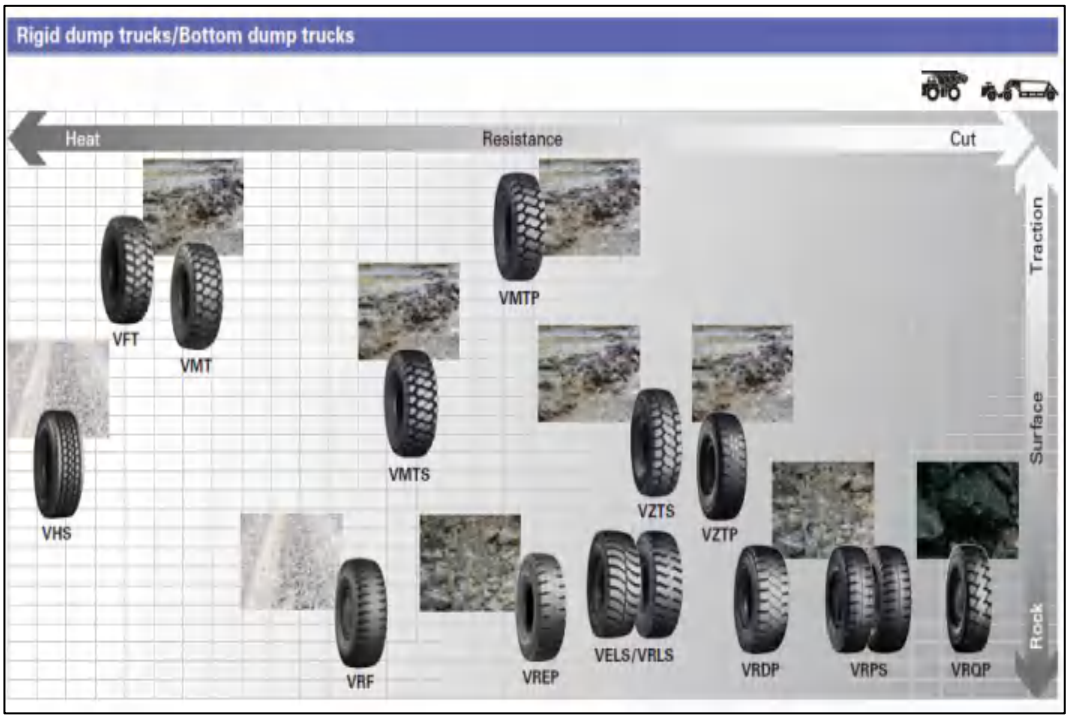
Ban Standar 27.00-R49 (E4)

- Kemampuan produktif truk 777D adalah sedemikian rupa dimana, pada kondisi kerja tertentu, kemampuan TKPH (TMPH) dari ban standar atau opsional dapat terlampaui dan, dengan demikian, membatasi produksi.
- Caterpillar merekomendasikan agar pelanggan mengevaluasi semua kondisi kerja dan menghubungi produsen ban untuk mengetahui pemilihan ban yang tepat.

TIPE BAN DUMP TRUCK CATERPILLAR 777D

Tire Size	Pattern	Star Rating	Type	TRA Code or Application	Approximate Inflated Dimensions								OTD	Minimum Dual Spacing		Recommended Rim/ Flange Height (inch)
					OD		OW		SLR		SLW					
					mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	inch	
11.00R20	L317	★3	T/T	E4	1107	43.6	290	11.4	512	20.2	325	12.8	25.0	335	13.2	8.00V
12.00R20	L317	★3	T/T	E4	1146	45.1	308	12.1	523	20.6	346	13.6	25.0	384	15.1	8.50V
11R22.5	L317	14	T/L	E4	1078	42.4	270	10.6	TBA	TBA	TBA	TBA	25.0	TBA	TBA	8.25
12R22.5	L317	★3	T/L	E4	1109	43.7	292	11.5	517	20.4	327	12.9	25.0	343	13.5	9.00
12.00R24	L317	★3	T/T	E4	1254	49.4	319	12.6	577	22.7	355	14.0	31.5	391	15.4	8.50V
12.00R24	VMTP	★3	T/T	E4	1254	49.4	319	12.6	577	22.7	355	14.0	31.5	391	15.4	8.50V
14.00R24	VSB	★3	T/T	E2	1365	53.7	390	15.4	628	24.7	433	17.0	21.0	450	17.7	10.00W
14.00R24	VRLS	★3	T/T	E4	1403	55.2	390	15.4	644	25.4	432	17.0	39.0	450	17.7	10.00W
14.00R25	VSB	★3	T/L	E2	1365	53.7	390	15.4	628	24.7	433	17.0	21.0	450	17.7	10.00/1.5
14.00R25	VMTS	★3	T/L	E4	1406	55.4	391	15.4	650	25.6	435	17.1	38.0	450	17.7	10.00/1.5
14.00R25	VRLS	★3	T/L	E4	1403	55.2	391	15.4	650	25.6	435	17.1	39.0	450	17.7	10.00/1.5
16.00R25	VMTS	★2	T/L	E4	1535	60.4	450	17.7	696	27.4	507	20.0	45.0	513	20.2	11.25/2.0
16.00R25	VRLS	★2	T/L	E4	1531	60.3	448	17.6	697	27.4	510	20.1	45.0	513	20.2	11.25/2.0
18.00R25	VMTS	★2	T/L	E4	1654	65.1	505	19.9	754	29.7	571	22.5	51.0	587	23.1	13.00/2.5
18.00R25	VELS	★2	T/L	E4	1642	64.6	515	20.3	744	29.3	580	22.8	50.0	587	23.1	13.00/2.5
20.5R25	VLT	MS	T/L	E3	1498	59.0	530	20.9	676	26.6	586	23.1	40.0	-	-	17.00AL/1.7(★1only) 17.00/2.0
20.5R25	VLTS	MS	T/L	E4	1478	58.2	530	20.9	667	26.3	581	22.9	49.0	-	-	17.00AL/1.7(★1only) 17.00/2.0
23.5R25	VLT	MS	T/L	E3	1623	63.9	616	24.3	734	28.9	680	26.8	42.5	-	-	19.50/2.5
23.5R25	VLTS	MS	T/L	E4	1616	63.6	612	24.1	729	28.7	675	26.6	54.0	-	-	19.50/2.5
750/65R25 (30/65R25)	VLT	MS	T/L	E3	1625	64.0	765	30.1	718	28.3	831	32.7	43.0	-	-	(22.00/3.0) 24.00/3.0
750/65R25 (30/65R25)	VLTS	★2	T/L	E4	1623	63.9	765	30.1	713	28.1	832	32.8	55.0	-	-	(22.00/3.0) 24.00/3.0
26.5R25	VLT	MS	T/L	E3	1747	68.8	684	26.9	787	31.0	736	29.0	45.0	-	-	22.00/3.0
26.5R25	VLTS	★2	T/L	E4	1736	68.3	678	26.7	784	30.9	743	29.3	59.0	-	-	22.00/3.0
29.5R25	VLT	MS	T/L	E3	1877	73.9	762	30.0	840	33.1	830	32.7	48.0	-	-	25.00/3.5
29.5R25	VLTS	★2	T/L	E4	1865	73.4	762	30.0	835	32.9	844	33.2	65.0	-	-	25.00/3.5
875/65R29	VLTS	MS	T/L	E4	1868	74.0	858	33.8	827	32.6	938	36.9	60.0	-		27.00/3.5 (28.00/3.5)
29.5R29	VKT	★2	T/L	E2	1958	77.1	765	30.1	870	34.3	841	33.1	44.0	-	-	25.00/3.5
33.25R29	VLT	★2	T/L	E3	2076	81.7	864	34.0	906	35.7	943	37.1	54.0	-	-	27.00/3.5
18.00R33	VMTP	★2	T/L	E4	1870	73.6	515	20.3	846	33.3	575	22.6	55.0	587	23.1	13.00/2.5
18.00R33	VELS	★2	T/L	E4	1856	73.1	512	20.2	856	33.7	575	22.6	49.0	587	23.1	13.00/2.5
18.00R33	VRQP	★2	T/L	E4	1890	74.4	515	20.3	876	34.5	575	22.6	64.5	587	23.1	13.00/2.5
21.00R33	VMTP	★2	T/L	E4	1998	78.7	578	22.8	909	35.8	650	25.6	61.0	701	27.6	15.00/3.0
21.00R33	VRLS	★2	T/L	E4	1978	77.9	578	22.8	899	35.4	650	25.6	54.0	701	27.6	15.00/3.0
21.00R35	VMTP	★2	T/L	E4	2048	80.6	577	22.7	922	36.3	655	25.8	61.0	701	27.6	15.00/3.0
21.00R35	VELS	★2	T/L	E4	2044	80.5	577	22.7	935	36.8	650	25.6	59.0	701	27.6	15.00/3.0
24.00R35	VMTP	★2	T/L	E4	2184	86.0	660	26.0	975	38.4	734	28.9	68.0	795	31.3	17.00/3.5
24.00R35	VRLS	★2	T/L	E4	2175	85.6	660	26.0	980	38.6	734	28.9	59.0	795	31.3	17.00/3.5
24.00R35	VRQP	★2	T/L	E4	2194	86.4	660	26.0	995	39.2	745	29.3	71.5	795	31.3	17.00/3.5
29.5R35	VRL	★2	T/L	E3	2120	83.5	768	30.2	932	36.7	844	33.2	39.5	-	-	25.00/3.5
33.25R35	VRL	★2	T/L	E3	2228	87.7	846	33.3	990	39.0	970	38.2	49.0	-	-	27.00/3.5
37.25R35	VLT	★2	T/L	E3	2388	94.0	954	37.6	1054	41.5	1063	41.9	59.5	-	-	31.00/4.0
37.5R39	VKT	★2	T/L	E2	2524	99.4	982	38.7	1120	44.1	1080	42.5	51.0	-	-	32.00/4.5
40.5/75R39	VLT	★2	T/L	E3	2609	102.6	1002	39.4	1157	45.6	1127	44.4	58.5	-	-	32.00/4.5
27.00R49	VFT	★2	T/L	E2	2646	104.2	750	29.5	1207	47.5	835	32.9	44.0	892	35.1	19.50/4.0
27.00R49	VMTS	★2	T/L	E4	2690	105.9	750	29.5	1230	48.4	835	32.9	64.0	892	35.1	19.50/4.0
27.00R49	VMTP	★2	T/L	E4	2700	106.3	750	29.5	1239	48.8	835	32.9	73.0	892	35.1	19.50/4.0
27.00R49	VREP	★2	T/L	E4	2690	105.9	750	29.5	1231	48.4	835	32.9	66.5	892	35.1	19.50/4.0
30.00R51	VRLS	★2	T/L	E4	2911	114.6	854	33.6	1311	51.6	963	37.9	74.5	993	39.1	19.50/4.0
33.00R51	VMT	★2	T/L	E3	2988	117.6	932	36.7	1338	52.7	1052	41.4	48.0	1074	42.3	22.00/4.5
33.00R51	VMTP	★2	T/L	E4	3063	120.6	932	36.7	1376	54.2	1052	41.4	89.5	1074	42.3	24.00/5.0
33.00R51	VRDP	★2	T/L	E4	3061	120.5	932	36.7	1376	54.2	1051	41.4	87.0	1074	42.3	24.00/5.0
33.00R51	VRPS	★2	T/L	E4	3061	120.5	932	36.7	1376	54.2	1051	41.4	87.0	1074	42.3	24.00/5.0
36.00R51	VHS	★2	T/L	E2	3108	122.4	1015	40.0	1390	54.7	1163	45.4	44.0	1184	46.6	26.00/5.0
36.00R51	VRLS	★2	T/L	E4	3204	126.1	1015	40.0	1431	56.3	1153	45.4	86.5	1184	46.6	26.00/5.0
37.00R57	VZTS	★2	T/L	E4	3422	134.7	1044	41.1	1541	60.7	1190	46.9	87.5	1217	47.9	27.00/6.0
37.00R57	VRLS	★2	T/L	E4	3410	134.3	1044	41.1	1535	60.4	1190	46.9	87.5	1217	47.9	27.00/6.0
42/90R57	VRDP	★2	T/L	E4	3456	136.1	1060	41.7	1539	60.6	1210	47.7	97.0	1323	52.1	27.00/6.0
NEW 42/90R57	VRPS	★2	T/L	E4	3456	136.1	1060	41.7	1539	60.6	1210	47.7	97.0	1323	52.1	27.00/6.0
40.00R57	VMT	★2	T/L	E3	3512	138.3	1108	43.6	1560	61.4	1264	49.8	64.0	1311	51.6	29.00/6.0
40.00R57	VZTS	★2	T/L	E4	3585	141.1	1140	44.9	1606	63.2	1289	50.7	91.5	1311	51.6	29.00/6.0
40.00R57	VELS	★2	T/L	E4	3562	140.2	1127	44.4	1582	62.3	1291	50.8	91.5	1311	51.6	29.00/6.0

Rigid dump trucks/Bottom dump trucks



PATTERN	VHS	VFT	VMT	VRF	VMTS	VMTP	VZTS	VZTP	VELS	VRLS	VREP	VRDP	VRPS	VRQP
	V-Steel H-Service	V-Steel F-Traction	V-Steel M-Traction	V-Steel Rock Fast	V-Steel M-Traction S	I-Steel M-Traction Premium	V-Steel Z-Traction S	I-Steel Z-Traction Premium	V-Steel E-Lug S	V-Steel R-Lug S	V-Steel Rock E-Premium	V-Steel Rock Deep Premium	I-Steel Rock Premium Service	I-Steel Rock Quarry Premium
TRA code	E2		E3		E4									
Characteristic	High-speed operation	Muddy & soft surface	Muddy & soft surface	High-speed operation	Muddy & soft surface	Muddy & soft surface	Muddy & soft surface	Muddy & soft surface	Rocky surface	Rocky surface	Rocky surface	Rocky surface	Rocky surface	Quarry surface
16.00 R25					★2					★2				
18.00 R25					★2				★2					
18.00 R33						★2			★2					★2
21.00 R33						★2				★2				
21.00 R35						★2			★2					
24.00 R35						★2				★2				★2
27.00 R49		★2			★2	★2					★2			
30.00 R51										★2				
33.00 R51			★2			★2						★2	★2	
36.00 R51	★2									★2				
37.00 R57							★2			★2				
42/90 R57												★2	NEW ★2	
40.00 R57			★2				★2		★2			★2	★2	
46/90 R57								★2					★2	
50/90 R57													★2	
53/80 R63				★2								★2	★2	
59/80 R63				★2									★2	

SPESIFIKASI DOZER D8R




MODEL	D7R Series II	D7R XR Series II	D7R LGP Series II	D8R
Flywheel Power	179 kW 240 hp	179 kW 240 hp	179 kW 240 hp	228 kW 305 hp
Operating Weight:*				
Power Shift Clutch Brake (FTC)	24 754 kg 54,573 lb	25 330 kg 55,843 lb	26 893 kg 59,289 lb	—
Power Shift Differential Steer	24 941 kg 54,985 lb	25 546 kg 56,430 lb	27 159 kg 59,875 lb	37 580 kg 82,850 lb
Engine Model	3176C SCA	3176C SCA	3176C SCA	3406E TA
Rated Engine RPM	2100	2100	2100	2100
No. of Cylinders	6	6	6	6
Bore	125 mm 4.92"	125 mm 4.92"	125 mm 4.92"	137 mm 5.4"
Stroke	140 mm 5.5"	140 mm 5.5"	140 mm 5.5"	165 mm 6.5"
Displacement	10.3 L 629 in³	10.3 L 629 in³	10.3 L 629 in³	14.6 L 893 in³
Track Rollers (Each Side)	7	8	7	8
ERF†	—	—	9	—
Width of Standard Track Shoe	560 mm 1'10"	610 mm 2'0"	914 mm 3'0"	560 mm 1'10"
Length of Track on Ground	2.89 m 9'5"	3.05 m 10'0"	3.16 m 10'5"	3.21 m 10'6"
Ground Contact Area (W/Std. Shoe)	3.22 m² 4996 in²	3.72 m² 5768 in²	5.78 m² 8960 in²	3.57 m² 5544 in²
Track Gauge	1.98 m 6'6"	1.98 m 6'6"	2.24 m 7'4"	2.08 m 6'10"
GENERAL DIMENSIONS:				
Height (Stripped Top)**	2.56 m 8'5"	2.56 m 8'5"	2.74 m 9'0"	2.67 m 8'9"
Height (To Top of ROPS Canopy)	3.53 m 11'7"	3.53 m 11'7"	3.52 m 11'6"	3.51 m 11'6"
Height (To Top of ROPS Cab)	3.43 m 11'2"	3.43 m 11'2"	3.58 m 11'9"	3.45 m 11'3"
Overall Length (With SU Blade)***	—	—	—	6.91 m 22'8"
(Without Blade)	—	—	—	4.93 m 16'2"
Overall Length (With S Blade)	5.69 m 18'8"	5.81 m 19'1"	5.78 m 19'0"	—
(Without Blade)	4.67 m 15'4"	4.67 m 15'4"	4.67 m 15'4"	—
Width (Over Trunnion)	2.87 m 9'5"	2.87 m 9'5"	3.37 m 11'1"	3.05 m 10'0"
Width (W/O Trunnion — Std. Shoe)	2.54 m 8'4"	2.59 m 8'6"	3.15 m 10'4"	2.70 m 8'8"
Ground Clearance	414 mm 16.3"	414 mm 16.3"	496 mm 1'7.5"	606 mm 1'11"
Blade Types and Widths:				
Straight	3.52 m 11'7"	3.32 m 11'7"	4.55 m 14'11"	—
Angle Straight	4.50 m 14'9"	4.50 m 14'9"	—	4.99 m 16'4"
Full 25° Angle	4.12 m 13'6"	4.12 m 13'6"	—	4.52 m 14'10"
Universal	3.98 m 13'1"	3.98 m 13'1"	—	4.26 m 14'0"
Semi-U	3.69 m 12'2"	3.69 m 12'2"	—	3.94 m 12'11"
Fuel Tank Refill Capacity	479 L 127 U.S. gal	479 L 127 U.S. gal	479 L 127 U.S. gal	625 L 165 U.S. gal

FTC — Fingertip clutch/brake control

D7R LGP ERF Series II*	915	**36**	6.49	**10,060**	42.0	**6.09**
D8R/ ◄ D8R Series II	560	**22**	3.59	**5565**	101.1	**14.67**
	610	**24**	3.91	**6062**	92.8	**13.47**
	660	**26**	4.23	**6559**	85.9	**12.47**
	710	**28**	4.55	**7056**	79.7	**11.57**
D8R LGP/ D8R LGP Series II	965	**38**	6.20	**9576**	58.6	**8.50**
D9R	560	**22**	3.86	**6009**	121.1	**17.58**
◄	610	**24**	4.24	**6569**	110.8	**16.08**
	685	**27**	4.74	**7374**	98.7	**14.32**
	760	**30**	5.26	**8194**	88.8	**12.89**
D10R ◄	610	**24**	4.74	**7321**	135.7	**19.63**
	710	**28**	5.52	**8551**	116.2	**16.86**
	800	**31.5**	6.22	**9635**	103.1	**14.97**

LAMPIRAN 4 KARTU KONSULTASI TUGAS AKHIR

Lampiran B 10

Kartu Konsultasi Tugas Akhir

JUDUL: ANALISIS KESTABILAN LERENG DISPOSAL LEMBO EAST 02 PT VALE INDONESIA TBK TIPE SEMI INDUCED FLOW DAN INDUCED FLOW SEBAGAI ACUAN PENENTUAN BATAS DUMPING YANG AMAN

(Konsultasi minimal 8 kali)

TANGGAL	MATERI KONSULTASI	PARAF DOSEN
19/04/2024	- Judul - Latar Belakang - Ganti software Geostudio jadi Rocscience Slide 2 - Tujuan Penelitian	
24/04/2024	- Tinjauan pustaka - Format penulisan - Abstrak - Pembahasan	
30/04/2024	- Penambahan BAB IV - Kesimpulan & saran	
03/05/2024	- Bagan alir penelitian - Perbaikan Peta - Perjelas gambar	
08/05/2024	- Pembahasan mengenai tipe disposal induced flow	

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TANGGAL	MATERI KONSULTASI	PARAF DOSEN
15/05/2024	- Pembahasan Bab IV mengenai batas dumping - Penulisan daftar pustaka	
22/05/2024	- Daftar isi - Kesimpulan dan saran - Daftar pustaka	
05/06/2024	- Halaman pengesahan - Penambahan judul - Format artikel & poster - Kesimpulan diperpanjang - Langkah-langkah pengolahan data	
30/07/2024	- Penambahan tutorial memasukkan parameter loading di Slide2 - Penambahan Arah mata angin dan skala di gambar topografi penampang disposal	

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