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Make	Detroit Diesel
Model	6063-WK32, Series 60
Serial number	06R0442911
Displacement	11.1 Liter
Rated power	242 kW @ 2100 rpm
Fuel rate at rated power	53.4 kg/h
Peak torque	1539 N.m @1200 rpm
Intermediate speed	1260 rpm
Aspiration	Turbocharged, charged air cooled
Fuel system	DI, Electronically controlled fuel injection
Max air intake restriction-clean air filter	3 kPa
Max exhaust backpressure	10.1 kPa
Low idle speed	600 rpm
High idle speed	2225 rpm















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Table 3 – Transient LHD T	est Cycle Ex	chaust Emis	sion Data f	or DOC 14SC
	•	Baseline Data	DOC Data	Percentage Change
Speed	rpm	1668.5	1665.6	-0.2%
Torque	N.m	564.8	568.3	0.6%
Power	kW	98.7	99.1	0.4%
Exhaust Temperature	°C	316	317	0.2%
Exhaust Specific Emissions				
CO ₂	g/kWh	671.8	677.9	0.9%
co	a/kWh	1.1	0.3	-71.0%
NO ₂	g/kWh	0.4	0.1	-69.8%
NO	g/kWh	3.7	3.8	3.2%
тнс	g/kWh	0.2	0.1	-58.9%
Exhaust Cas Concentrations	Mat			
CO ₂	%	4.1	4.1	0.6%
0	nnm	114	30	-73 4%
NO ₂	ppm	26	8	-69.6%
NO	ppm	380	390	2.6%
THO	nnm	38	14	-61.4%







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e 4 – Transient LHD Test (Cycle Exh	naust Emis	sion Dat	a for DOC 12
	-			
		Data	DOC	Change
Speed	rpm	1664.1	1660.0	-0.2%
Torque	N.m	562.9	560.3	-0.5%
Power	kW	98.1	97.4	-0.7%
Exhaust Temperature	°C	316	318	0.6%
Exhaust Specific Emissions				
CO ₂	g/kWh	673.5	697.2	3.5%
CO	g/kWh	1.1	0.3	-72.0%
NO ₂	a/kWh	0.4	0.4	-6.4%
NO	g/kWh	3.7	3.7	-0.2%
тнс	g/kWh	0.2	0.0	-74.3%
Exhaust Gas Concentration				
CO ₂	%	4 1	43	6.7%
co	ppm	114	3	-97.3%
NO ₂	mag	26	26	-2.2%
NO	ppm	380	396	4 1%
	ppm	000	000	75.000







	Su	Immary	Progre	essive L	oad Te	st Data	- Befor	e and a	fter DO	C 14SC	;				
Test Points->		1	1	2	2	3	3	4	4	5	5	6	6	7	7
Speed	rpm	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260
Torque	N.m	20	20	102	102	183	183	265	265	319	319	373	373	427	427
Power	kW	2.7	2.7	13.5	13.4	24.2	24.2	34.9	34.9	42.1	42.1	49.2	49.2	56.4	56.3
Engine Exhaust temp.	°C	124	124	161	162	199	200	239	242	268	270	292	292	315	315
DOC inlet temperature	°C	117	117	148	150	182	185	219	222	246	248	268	269	289	290
Exhaust gas concentration -we	t														
CO ₂	%	1.1	1.1	1.9	1.9	2.7	2.7	3.4	3.5	3.9	3.9	4.3	4.3	4.7	4.7
CO	ppm	270	264	229	226	169	166	98	7	76	1	65	0	61	0
NO ₂	ppm	36	28	42	27	43	18	39	11	34	14	32	11	29	9
NO	ppm	134	141	230	248	327	353	382	406	421	443	461	480	496	516
THC	ppm	160	137	106	98	75	72	56	36	49	20	46	17	46	16
Specific emission -wet	ppin										20				
CO2	a/kWh	2868	2887	981	994	791	811	715	723	687	677	657	667	651	656
CO	g/kWh	43.1	42.6	7.5	74	32	32	13	0.1	0.8	0.0	0.6	0.0	0.5	0.0
NOa	g/kWh	89	6.9	21	14	12	0.5	0.8	0.2	0.6	0.2	0.5	0.2	0.4	0.1
NO	g/kWh	23.0	24.4	81	8.8	6.5	72	54	5.8	51	52	4.8	51	47	49
THC	g/k/Mh	13.0	113	1.8	17	0.7	0.7	0.4	0.2	0.3	0.1	0.2	0.1	0.2	0.1
ino	gaan	. 10.0	. 11.0	. 1.0	. 1.1	. 0.1	. 0.1	. 0.1	. 0.2	. 0.0	. 0.1	. 0.2	. 0.1	. 0.2	
Test Points->		8	8	9	9	10	10	11	11	12	12	13	13	•	
Speed	rpm	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1259		
Torque	N.m	481	482	570	570	719	719	929	929	1133	1133	1465	1466		
Power	kW	63.5	63.6	75.1	75.2	94.8	94.9	122.6	122.6	149.5	149.5	193.3	193.4		
Engine Exhaust temp.	°C	336	336	366	365	405	406	443	444	467	467	494	495		
DOC inlet temperature	°C	309	310	337	338	375	377	413	414	439	440	468	469		
Exhaust gas concentration -we	t														
CO ₂	%	5.0	5.1	5.5	5.5	6.2	6.2	6.9	6.9	7.3	7.4	7.8	7.9		
CO	ppm	57.5	0.0	57.3	0.0	73.1	00	116 1	44	1467	99	132.2	11.0		
NO ₂	ppm	27.2	10.9	23.6	17.7	19.1	33.8	16.5	39.0	14.5	39.2	12.8	45.1		
NO	ppm	526.8	548 4	581.2	594 6	662 1	647.9	782 9	7412	858 7	823 5	928.2	909.2		
THC	ppm	42	15	39	14	33	13	28	12	25	13	26	14		
Specific emission -wet															
CO ₂	a/kWh	646	649	636	636	627	632	614	617	603	614	601	610		
00	g/k/Mh	0.5	0.0	0.4	0.0	0.5	0.0	07	0.0	0.8	01	0.6	01		
					0.0	0.0	0.0	v.1	0.0	0.0	w. 1	0.0	w. 1		
NOn	g/kWh	0.3	0.1	0.3	02	0.2	0.3	01	0.3	01	0.3	01	0.3		
NO ₂	g/kWh g/kWh	0.3	0.1	0.3	0.2	0.2	0.3	0.1	0.3	0.1	0.3	0.1	0.3		

Test Points-> 1 1 2 2 3 3 4 4 5 5 6 6 7 Speed rpm 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260	7 0 1260 427 4 56.4 318 2 293
Speed rpm 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 <th< th=""><th>0 1260 427 4 56.4 318 293</th></th<>	0 1260 427 4 56.4 318 293
Torque N.m 20 20 102 103 183 265 265 319 319 373 373 42 Power kW 2.7 2.7 13.4 13.4 24.2 24.2 34.9 34.9 42.1 42.1 49.2 49.2 56 Engine Exhaust temp. °C 124 124 161 162 200 202 241 243 270 272 296 295 311 DOC initiation company °C 146 146 146 146 201 202 241 243 270 272 296 295 311	427 4 56.4 318 293
Power kW 2.7 2.7 13.4 13.4 24.2 24.2 34.9 34.9 42.1 42.1 49.2 49.2 56 Engine Exhaust temp. °C 124 124 161 162 200 202 241 243 270 272 296 295 31 DOC instruments °C 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146	4 56.4 318 293
Engine Exhaust temp. °C 124 124 161 162 200 202 241 243 270 272 296 295 31	318 293
DOC inlat tomporatura % 116 116 148 150 184 186 201 202 248 249 272 272 20	293
DOCIMELIEMperature C 110 110 140 150 184 186 221 223 248 249 272 272 29	
Exhaust gas concentration -wet	
CO ₂ % 1.1 1.1 1.9 1.9 2.7 2.7 3.5 3.5 3.9 4.0 4.4 4.4 4.	4.7
CO ppm 288 282 242 235 176 177 102 92 77 1 67 0 66	0
NO ₂ ppm 38 32 43 30 43 14 38 4 34 5 30 12 2'	20
NO ppm 132 135 233 253 332 364 390 428 442 459 478 496 50	524
THC ppm 175 148 114 103 79 75 58 49 49 18 46 13 44	13
Specific emission -wet	
CO ₂ g/kWh 2888 2832 997 991 804 807 720 719 683 687 666 671 65	651
CO g/kWh 46.2 44.3 7.9 7.6 3.3 3.3 1.3 1.2 0.8 0.0 0.7 0.0 0.	0.0
NO ₂ g/kWh 9.3 7.8 2.2 1.5 1.2 0.4 0.8 0.1 0.6 0.1 0.4 0.2 0.	0.3
NO g/kWh 227 227 82 89 67 73 55 60 52 54 50 52 4	4.9
THC 0/Wh 142 118 1.9 1.7 0.8 0.7 0.4 0.3 0.3 0.1 0.2 0.1 0.	0.1
Test Points-> 8 8 9 9 10 10 11 11 12 12 13 13	
Speed rpm 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 1260 <th< td=""><td></td></th<>	
Torque N.m 482 481 570 570 719 718 929 929 1133 1133 1466 1467	
Power kW 63.5 63.5 75.2 75.2 94.8 94.8 122.6 122.6 149.4 149.5 193.5 193.6	
Engine Exhaust temp. °C 338 338 366 367 404 405 442 442 466 467 494 494	
DOC inlet temperature °C 312 313 339 341 376 377 415 416 441 442 470 471	
Exhaust gas concentration -wet	
CO2 % 5.1 5.1 5.5 5.6 6.2 6.2 6.9 6.9 7.3 7.3 7.8 7.8	
CO ppm 59.9 -0.2 57.5 -0.2 72.7 -0.1 114.1 2.1 144.1 6.2 133.3 8.8	
NO ₂ ppm 26.5 30.0 21.9 45.2 17.3 67.2 14.9 85.4 13.9 92.5 11.6 99.9	
NO ppm 545.6 535.7 590.9 564.4 673.1 627.3 784.9 709.1 869.3 778.8 951.4 867.3	
THC ppm 42 13 38 12 32 11 28 11 26 10 26 10	
Specific emission -wet	
CO2 g/kWh 645 650 632 634 625 624 615 613 613 612 606 602	
CO g/kWh 0.5 0.0 0.4 0.0 0.5 0.0 0.7 0.0 0.8 0.0 0.7 0.0	
NO ₂ g/kWh 0.3 0.4 0.2 0.5 0.2 0.7 0.1 0.7 0.1 0.8 0.1 0.7	
NO g/kWh 4.7 4.7 4.6 4.4 4.6 4.3 4.8 4.3 5.0 4.4 5.0 4.6	
THC g/kWh 0.2 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0	











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