CONSTRUCTION EQUIPMENT

LIEBHERR LH40M 114405-1215 - Diesel Engine

Sample No: LH0270293

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Oil Type: PETRO CANADA SUPREME 5W30

Sample Information

Sample Number		LH0270293	LH0281441	LH0270643	LH0251679		
Sample Date		25 Mar 2024	27 Nov 2023	12 Jul 2023	31 Jan 2023		
Machine Hours		6625	6537	6035	5542		
Oil Hours		0	0	0	0		
Oil Changed		Changed	Changed	Changed	Changed		
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL		
Oil Condition							
Visc @ 100°C	cSt	14.0	12.9	0 13.1	12.8		
Oxidation (PA)	%	56	66	61	64		

Contamination					
Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0 ()	0	0
Nitration (PA)	%	48	74	68	69
Sulfation (PA)	%	50	53	52	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	0 4	6	6	6
Sodium	ppm	○ <1	0 2	2	01
Potassium	ppm	0	0	0	0

	ar Metals		0.0		
ron	ppm	03	3	3	3
Copper	ppm	01	○ 3	0 1	0 1
_ead	ppm	0	◯ <1	◯ <1	01
Tin	ppm	0 🔘	0 (0	◯ <1
Aluminum	ppm	 <1	0 1	◯ <1	2
Chromium	ppm	0 🔘	0 0	0	0
Molybdenum	ppm	0 56	59	58	57
Nickel	ppm	0 🔘	○ <1	0	◯ <1
Fitanium	ppm	0	0	0	0
Silver	ppm	0 🔘	○ <1	◯ <1	◯ <1
Manganese	ppm	0	0	◯ <1	◯ <1
/anadium	ppm	0	0	0	0

Additives					
Calcium	ppm	0 1093	0 1046	0 1074	0 1110
Magnesium	ppm	938	965	981	○ 959
Zinc	ppm	0 1155	0 1185	0 1207	0 1203
Phosphorus	ppm	978	0 1006	0 1058	0 1072
Barium	ppm	0 🔘	○ <1	0	0
Boron	ppm	3	03	0 4	2

Depot: Unique No: Signed: Report Date:

STR437BUR 5760738 Kevin Marson 09 Apr 2024 Submitted By: ?





ELG Canada

4375 CORPORATE DRIVE BURLINGTON, ON CA L7L 5P7 Contact: Service Manager

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Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.





Graphs

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