LIEBHERR

CONSTRUCTION EQUIPMENT



[(347076)] LIEBHERR L586 062518-1761 - Diesel Engine

Sample No: LH0269616

Oil Type: PETRO CANADA 10W30

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U SAM	PLE INF	ORMATION			
Sample Number		LH0269616	LH0269534	LH0234513	LH0238538
Sample Date		24 Jan 2024	28 Aug 2023	17 Jan 2023	20 Aug 2022
Machine Hours		8083	7038	5327	4090
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	N/A	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
OIL	ONDITION	ON			
Visc @ 40°C	cSt			O 70.1	
Vice @ 100°C	oC+	O 11 0	0 126	O 11 /	0 11 /

Visc @ 40°C	cSt			O 70.1			
Visc @ 100°C	cSt	11.8	12.6	11.4	O 11.4		
Viscosity Index (VI)	Scale			156			
Oxidation (PA)	%	101	71	93	93		
**							
CONTAMINATION							
Water	%	NEG	NEG	NEG	NEG		

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	O 0	0	O 0
Nitration (PA)	%	97	76	85	89
Sulfation (PA)	%	68	60	65	65
Glycol	%	○ 0.0	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	7	0 8
Sodium	ppm	4	O 2	5	5
Potassium	ppm	9	O 12	7	3

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WEA	R METALS				
Iron	ppm	9	6	9	9
Copper	ppm	2	3	4	4
Lead	ppm	2	1	<1	O 2
Tin	ppm	0	O <1	 <1	O <1
Aluminum	ppm	6	5	4	O 2
Chromium	ppm	0 <1	O <1	 <1	O <1
Molybdenum	ppm	60	6 3	O 62	59
Nickel	ppm	0 <1	O 0	 <1	O 0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	O 0	O 0	0
Manganese	ppm	0	O <1	<1	O <1
Vanadium	ppm	0	0	0	0

0					
ADI	DITIVES				
Calcium	ppm	○ 890	O 1068	○ 863	○ 861
Magnesium	ppm	1135	O 1045	O 1115	O 1151
Zinc	ppm	1255	1242	O 1190	O 1264
Phosphorus	ppm	1031	O 1081	O 1051	O 1045
Barium	ppm	0	O	O	0
Boron	ppm	24	O 2	16	O 15



MODERN CONSTRUCTION (1983) LTD. 364 BRIGGS CROSS ROAD

STILESVILLE, NB CA E1G 3G3

Contact: Blaine Cail

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Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the oil. Free water present. Test for glycol is negative. The white residue present in the sample is oil additive precipitate. The oil is no longer serviceable due to the presence of contaminants.

Depot: MODSTI
Unique No: 5720822
Signed: Bill Quesnel
Report Date: 31 Jan 2024

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GRAPHS

