

LIEBHERR

CONSTRUCTION EQUIPMENT



[(346464)] LIEBHERR LH30M 124535-1253 - Diesel Engine

Sample No: LH0269656

Oil Type: PETRO CANADA SUPREME 5W30



JOHN ROSS & SONS LTD.
85 GLASSY AVENUE
TRURO, NS
CA B2N 6Z1
Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0269656	LH0234541	LH0224223	LH0197100
Sample Date	14 Jan 2024	12 Jun 2022	04 Apr 2022	09 Aug 2021
Machine Hours	5749	2437	2025	753
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION



OIL CONDITION

Visc @ 100°C	cSt	11.0	11.1	11.9	11.3
Oxidation (PA)	%	76	73	84	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	78	75	73	67
Sulfation (PA)	%	55	61	67	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	7	7
Sodium	ppm	4	4	4	4
Potassium	ppm	2	1	<1	<1



WEAR METALS

Iron	ppm	4	3	4	4
Copper	ppm	1	3	11	39
Lead	ppm	0	<1	<1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	1	1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	58	59	51	55
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	818	858	740	856
Magnesium	ppm	1084	1147	1038	1152
Zinc	ppm	1191	1265	1134	1211
Phosphorus	ppm	1024	1093	1096	1067
Barium	ppm	0	0	<1	3
Boron	ppm	40	39	61	43

T:
F:

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. The condition of the oil is acceptable for the time in service.

Depot: JOHTRU
Unique No: 5720835
Signed: Wes Davis
Report Date: 30 Jan 2024



GRAPHS

