

LIEBHERR

CONSTRUCTION EQUIPMENT



[(355228) [575629]] LIEBHERR LH60M 114198-1217 - Diesel E

Sample No: LH0269774

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0269774	LH0225068	LH0250443	LH0224849
Sample Date	22 Sep 2023	10 Feb 2023	09 Jan 2023	18 Nov 2022
Machine Hours	7355	4980	4651	4073
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

AltaSteel
 9401 34 St NW
 Edmonton, AB
 CA T6B 2X6
 Contact: Richard Bailey
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.2	11.7	11.7	11.4
Oxidation (PA)	%	70	82	99	94



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	72	88	96	88
Sulfation (PA)	%	54	61	65	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	10	8	7
Sodium	ppm	2	5	5	4
Potassium	ppm	0	<1	<1	0



WEAR METALS

Iron	ppm	3	4	6	5
Copper	ppm	<1	<1	3	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	1	2	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	58	62	62	60
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1011	874	839	797
Magnesium	ppm	977	1151	1139	1113
Zinc	ppm	1177	1268	1217	1164
Phosphorus	ppm	984	1153	1084	1052
Barium	ppm	<1	0	<1	<1
Boron	ppm	2	30	28	25

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.

Depot: ALT940EDM
Unique No: 5646507
Signed: Kevin Marson
Report Date: 27 Sep 2023



GRAPHS

