

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0230468

Oil Type: PETRO CANADA DURON UHP 5W30



SAMPLE INFORMATION

Sample Number	LH0230468	LH0230418	LH0224214	LH0180443
Sample Date	25 Jul 2022	05 May 2022	03 Apr 2022	21 Feb 2022
Machine Hours	0	22049	21571	21564
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

J.D. Irving

Truro Sawmill, 529 Valley Dale Road
Truro, NS
CA B2N 5C5
Contact: Sheldon Richardson
richardson.sheldon@jdirving.com
T: (902)890-9419
F:



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	12.2	11.8
Oxidation (PA)	%	77	81	86	86



CONTAMINATION

Water	%	---	---	---	0.129
Soot %	%	0	0	0	0
Nitration (PA)	%	87	88	87	89
Sulfation (PA)	%	57	64	66	63
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	9	30	22
Sodium	ppm	4	4	6	4
Potassium	ppm	<1	1	4	<1

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	4	6	14	4
Copper	ppm	1	1	3	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	8	1
Chromium	ppm	<1	<1	3	<1
Molybdenum	ppm	37	40	57	57
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1428	1360	799	820
Magnesium	ppm	687	769	1150	1174
Zinc	ppm	1234	1284	1226	1251
Phosphorus	ppm	1034	1090	1120	1093
Barium	ppm	0	0	<1	0
Boron	ppm	31	28	51	35

Depot: JDITRU
Unique No: 5434887
Signed: Wes Davis
Report Date: 26 Jul 2022



GRAPHS

