

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0277110

Oil Type: PETRO CANADA DURON UHP 5W30



SAMPLE INFORMATION

Sample Number	LH0277110	LH0260016	LH0250296	LH0234620
Sample Date	13 Oct 2023	21 Aug 2023	31 May 2023	14 Mar 2023
Machine Hours	28718	27281	26834	25721
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

J.D. Irving

Truro Sawmill, 529 Valley Dale Road

Truro, NS

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OIL CONDITION

Visc @ 100°C	cSt	11.6	11.3	11.9	11.6
Oxidation (PA)	%	100	112	98	93



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	95	113	97	88
Sulfation (PA)	%	65	75	65	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	11	6	8
Sodium	ppm	5	6	5	15
Potassium	ppm	0	2	<1	1



WEAR METALS

Iron	ppm	7	10	5	4
Copper	ppm	2	2	1	<1
Lead	ppm	<1	1	<1	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	56	63	57	63
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	855	940	1146	913
Magnesium	ppm	1119	1139	1002	1151
Zinc	ppm	1245	1259	1271	1271
Phosphorus	ppm	1043	1095	1114	1118
Barium	ppm	<1	<1	0	0
Boron	ppm	18	12	23	27

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: JDITRU

Unique No: 5667983

Signed: Kevin Marson

Report Date: 23 Oct 2023



GRAPHS

