

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 099250-1475 - Diesel Engine

Sample No: LH0278399

Oil Type: PETRO CANADA DURON UHP 5W30



SAMPLE INFORMATION

Sample Number	LH0278399	LH0278398	LH0151264	LH0122751
Sample Date	17 Nov 2023	16 Nov 2023	17 Oct 2019	10 Oct 2018
Machine Hours	33052	33052	10200	4384
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Changed
Sample Status	ATTENTION	ATTENTION	SEVERE	NORMAL

J.D. Irving Sussex

39C Rte 890, Sussex Garage

Four Corners, NB

CA E4G 2W1

Contact: Mike Coates

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OIL CONDITION

Visc @ 100°C	cSt	11.4	11.4	11.5	11.1
Oxidation (PA)	%	72	72	86	91



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	71	71	93	95
Sulfation (PA)	%	55	55	66	59
Glycol	%	0.0	0.01	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	9	8
Sodium	ppm	225	229	3	4
Potassium	ppm	3	3	2	7



WEAR METALS

Iron	ppm	2	2	21	3
Copper	ppm	<1	<1	4	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	2	2	3
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	77	76	61	41
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	<1	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	797	802	882	1227
Magnesium	ppm	1097	1087	1150	820
Zinc	ppm	1171	1178	1284	1074
Phosphorus	ppm	1031	1020	1099	915
Barium	ppm	<1	<1	<1	0
Boron	ppm	21	20	30	23

Diagnosis

Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service (see recommendation).

Depot: JDISUS

Unique No: 5682458

Signed: Kevin Marson

Report Date: 21 Nov 2023



GRAPHS

