

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0234620

Oil Type: PETRO CANADA DURON UHP 5W30



J.D. Irving
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SAMPLE INFORMATION

Sample Number	LH0234620	LH0250186	LH0238563	LH0230468
Sample Date	14 Mar 2023	11 Jan 2023	24 Oct 2022	25 Jul 2022
Machine Hours	25721	24879	23665	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	11.6	11.6	12.5	12.6
Oxidation (PA)	%	93	86	78	77



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	88	89	91	87
Sulfation (PA)	%	69	62	59	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	6	6
Sodium	ppm	15	5	3	4
Potassium	ppm	1	<1	0	<1



WEAR METALS

Iron	ppm	4	3	3	4
Copper	ppm	<1	<1	1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	63	59	38	37
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	913	877	1451	1428
Magnesium	ppm	1151	1119	712	687
Zinc	ppm	1271	1246	1246	1234
Phosphorus	ppm	1118	1099	1119	1034
Barium	ppm	0	0	0	0
Boron	ppm	27	25	25	31

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: 5553318
 Signed: Wes Davis
 Report Date: 29 Mar 2023



GRAPHS

