

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0238563

Oil Type: PETRO CANADA DURON UHP 5W30



J.D. Irving

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SAMPLE INFORMATION

Sample Number	LH0238563	LH0230468	LH0230418	LH0224214
Sample Date	24 Oct 2022	25 Jul 2022	05 May 2022	03 Apr 2022
Machine Hours	23665	0	22049	21571
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.6	12.2
Oxidation (PA)	%	78	77	81	86



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	91	87	88	87
Sulfation (PA)	%	59	57	64	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	9	30
Sodium	ppm	3	4	4	6
Potassium	ppm	0	<1	1	4



WEAR METALS

Iron	ppm	3	4	6	14
Copper	ppm	1	1	1	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	2	8
Chromium	ppm	0	<1	<1	3
Molybdenum	ppm	38	37	40	57
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1451	1428	1360	799
Magnesium	ppm	712	687	769	1150
Zinc	ppm	1246	1234	1284	1226
Phosphorus	ppm	1119	1034	1090	1120
Barium	ppm	0	0	0	<1
Boron	ppm	25	31	28	51

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.

Depot: JDITRU
Unique No: 5475170
Signed: Kevin Marson
Report Date: 25 Oct 2022



GRAPHS

