

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0224214

Oil Type: PETRO CANADA DURON UHP 5W30



SAMPLE INFORMATION

Sample Number	LH0224214	LH0180443	LH0195218	LH0194731
Sample Date	03 Apr 2022	21 Feb 2022	15 Dec 2021	29 Oct 2021
Machine Hours	21571	21564	20607	20093
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL

J.D. Irving

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OIL CONDITION

Visc @ 100°C	cSt	12.2	11.8	11.9	11.8
Oxidation (PA)	%	86	86	81	87



CONTAMINATION

Water	%	---	0.129	---	---
Soot %	%	0	0	0	0
Nitration (PA)	%	87	89	87	88
Sulfation (PA)	%	66	63	59	62
Glycol	%	NEG	0.0	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	30	22	7	8
Sodium	ppm	6	4	4	5
Potassium	ppm	4	<1	1	<1

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.



WEAR METALS

Iron	ppm	14	4	4	4
Copper	ppm	3	<1	<1	1
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	8	1	1	2
Chromium	ppm	3	<1	<1	<1
Molybdenum	ppm	57	57	60	64
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	799	820	830	900
Magnesium	ppm	1150	1174	1219	1318
Zinc	ppm	1226	1251	1269	1386
Phosphorus	ppm	1120	1093	1110	1211
Barium	ppm	<1	0	0	0
Boron	ppm	51	35	32	24

Depot: JDITRU
Unique No: 5383229
Signed: Wes Davis
Report Date: 08 Apr 2022



GRAPHS

