

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Diesel Engine

Sample No: LH0195218

Oil Type: PETRO CANADA DURON UHP 5W30



SAMPLE INFORMATION

Sample Number	LH0195218	LH0194731	LH0180426	LH0183457
Sample Date	15 Dec 2021	29 Oct 2021	17 Mar 2021	08 Feb 2021
Machine Hours	20607	20093	0	8850
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

J.D. Irving

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OIL CONDITION

Visc @ 100°C	cSt	11.9	11.8	10.7	11.4
Oxidation (PA)	%	81	87	78	79



CONTAMINATION

Water	%	---	---	0.335	---
Soot %	%	0	0	0	0
Nitration (PA)	%	87	88	84	80
Sulfation (PA)	%	59	62	57	57
Glycol	%	NEG	NEG	0.0	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	7	6
Sodium	ppm	4	5	4	4
Potassium	ppm	1	<1	0	<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	4	4	4	3
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	1	2	1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	60	64	55	59
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	830	900	797	865
Magnesium	ppm	1219	1318	1106	1143
Zinc	ppm	1269	1386	1236	1331
Phosphorus	ppm	1110	1211	997	1066
Barium	ppm	0	0	<1	0
Boron	ppm	32	24	31	30

Depot: JDITRU
Unique No: 5331821
Signed: Wes Davis
Report Date: 24 Dec 2021

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GRAPHS

