

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 136518-1253 - Diesel Engine

Sample No: LH0228852

Oil Type: PETRO CANADA DURON UHP E6 10W40



CAC ENTERPRISES GROUP INC.

2411 76th AVE
EDMONTON, AB
CA T6P 1P6

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F:

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.



SAMPLE INFORMATION

Sample Number	LH0228852	LH0228849	LH0228840	LH0228837
Sample Date	05 Jun 2023	24 Mar 2023	16 Nov 2022	09 Sep 2022
Machine Hours	2000	1500	1000	500
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	12.9	12.0
Oxidation (PA)	%	60	62	83	208



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	58	63	65	103
Sulfation (PA)	%	53	54	64	114
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	8	6	9	12
Sodium	ppm	2	1	1	2
Potassium	ppm	<1	<1	<1	3



WEAR METALS

Iron	ppm	4	4	5	11
Copper	ppm	4	13	71	180
Lead	ppm	<1	<1	2	8
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	1	1	1	3
Chromium	ppm	<1	<1	0	1
Molybdenum	ppm	57	57	56	45
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1038	1044	1102	1343
Magnesium	ppm	983	983	948	897
Zinc	ppm	1181	1184	1124	815
Phosphorus	ppm	1040	1049	1023	723
Barium	ppm	<1	<1	3	32
Boron	ppm	<1	2	10	94

Depot: CAC241EDM
Unique No: 5620667
Signed: Wes Davis
Report Date: 14 Aug 2023



GRAPHS

