

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 141511-1217 - Diesel Engine

Sample No: LH0246265

Oil Type: PETRO CANADA DURON UHP 10W40



Radius Recycling Canada Ltd.

12195 Musqueam Dr.

Surrey, BC

CA V3V 3T2

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Sample Information

Sample Number	LH0246265	LH0246254	LH0246923	LH0246251
Sample Date	15 Apr 2024	08 Sep 2023	16 Feb 2023	02 Feb 2023
Machine Hours	2560	1531	575	510
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	SEVERE



Oil Condition

Visc @ 100°C	cSt	13.0	12.6	13.7	11.7
Oxidation (PA)	%	72	68	86	209



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	77	71	57	104
Sulfation (PA)	%	54	53	68	113
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.2	2.6	0.9	8
Silicon	ppm	2	3	8	8
Sodium	ppm	2	2	1	3
Potassium	ppm	0	0	<1	2



Wear Metals

Iron	ppm	5	6	4	12
Copper	ppm	2	4	43	188
Lead	ppm	0	<1	2	7
Tin	ppm	0	<1	<1	1
Aluminum	ppm	1	1	1	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	59	58	55	45
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1095	1052	1158	1457
Magnesium	ppm	978	970	945	875
Zinc	ppm	1197	1169	1078	829
Phosphorus	ppm	1016	981	999	726
Barium	ppm	<1	<1	8	42
Boron	ppm	1	2	15	77

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

Depot: AMISUR

Unique No: 5773432

Signed: Wes Davis

Report Date: 01 May 2024



Graphs

