

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 147037-1217 - Diesel Engine

Sample No: LH0131738

Oil Type: PETRO CANADA 10W40



STELLA JONES INC
 25 BRAID ST
 NEW WESTMINSTER, BC
 CA V3L 3P2
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SAMPLE INFORMATION

Sample Number	LH0131738	LH0271336	LH0271328	LH0271325
Sample Date	03 Feb 2024	08 Dec 2023	31 Oct 2023	28 Sep 2023
Machine Hours	2067	1497	1062	717
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.3	13.5	13.3	11.5
Oxidation (PA)	%	70	59	74	226



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	75	60	63	110
Sulfation (PA)	%	53	49	57	117
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	2.3
Silicon	ppm	8	6	8	9
Sodium	ppm	1	1	2	3
Potassium	ppm	<1	<1	<1	2



WEAR METALS

Iron	ppm	4	3	4	16
Copper	ppm	3	4	25	266
Lead	ppm	<1	<1	1	15
Tin	ppm	<1	0	<1	1
Aluminum	ppm	2	1	1	4
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	57	57	57	46
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	0	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1091	1078	1066	1364
Magnesium	ppm	960	974	948	920
Zinc	ppm	1192	1184	1168	838
Phosphorus	ppm	998	1012	966	672
Barium	ppm	<1	<1	4	42
Boron	ppm	<1	1	4	58

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.

Depot: STE25NEW
 Unique No: 5722751
 Signed: Wes Davis
 Report Date: 06 Feb 2024



GRAPHS

