

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 147037-1217 - Diesel Engine

Sample No: LH0271336

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	LH0271336	LH0271328	LH0271325	---
Sample Date	08 Dec 2023	31 Oct 2023	28 Sep 2023	---
Machine Hours	1497	1062	717	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---



OIL CONDITION

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



CONTAMINATION

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



WEAR METALS

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



ADDITIVES

Calcium	ppm	1078	1066	1364	---
Magnesium	ppm	974	948	920	---
Zinc	ppm	1184	1168	838	---
Phosphorus	ppm	1012	966	672	---
Barium	ppm	<1	4	42	---
Boron	ppm	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: 5697684
 Signed: Kevin Marson
 Report Date: 21 Dec 2023



GRAPHS

