

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 147037-1217 - Diesel Engine

Sample No: LH0271339

Oil Type: PETRO CANADA 10W40



STELLA JONES INC
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 NEW WESTMINSTER, BC
 CA V3L 3P2
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Sample Information

Sample Number	LH0271339	LH0131738	LH0271336	LH0271328
Sample Date	02 Apr 2024	03 Feb 2024	08 Dec 2023	31 Oct 2023
Machine Hours	2572	2067	1497	1062
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	13.4	13.3	13.5	13.3
Oxidation (PA)	%	67	70	59	74



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	72	75	60	63
Sulfation (PA)	%	52	53	49	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	6	8
Sodium	ppm	1	1	1	2
Potassium	ppm	<1	<1	<1	<1



Wear Metals

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



Additives

Calcium	ppm	1072	1091	1078	1066
Magnesium	ppm	976	960	974	948
Zinc	ppm	1197	1192	1184	1168
Phosphorus	ppm	1004	998	1012	966
Barium	ppm	<1	<1	<1	4
Boron	ppm	<1	<1	1	4

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: 5759677
 Signed: Wes Davis
 Report Date: 04 Apr 2024



Graphs

