

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 103210-1217 - Diesel Engine

Sample No: LH0284109

Oil Type: PETRO CANADA 10W40



STELLA JONES INC
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 CA V3L 3P2
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SAMPLE INFORMATION

Sample Number	LH0284109	LH0260487	LH0260636	LH0234072
Sample Date	13 Mar 2024	21 Aug 2023	14 Apr 2023	28 Feb 2023
Machine Hours	21337	20729	19540	19005
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.2	12.7	13.2	13.8
Oxidation (PA)	%	85	99	70	118



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	94	101	79	130
Sulfation (PA)	%	62	72	53	77
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	12	13	9
Sodium	ppm	2	2	1	2
Potassium	ppm	2	<1	<1	<1



WEAR METALS

Iron	ppm	6	7	4	14
Copper	ppm	2	2	<1	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	60	60	59	66
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1063	1076	1114	1216
Magnesium	ppm	979	1009	977	1081
Zinc	ppm	1182	1239	1204	1334
Phosphorus	ppm	985	1047	1073	1182
Barium	ppm	0	<1	0	<1
Boron	ppm	<1	<1	<1	<1

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: 5747423
Signed: Wes Davis
Report Date: 15 Mar 2024



GRAPHS

