

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 068902-1203 - Diesel Engine

Sample No: LH0115738

Oil Type: PETRO CANADA DURON HP 15W40



SAMPLE INFORMATION

Sample Number	LH0115738	LH0079638	LH0079631	---
Sample Date	29 Jan 2024	03 Jan 2015	07 Mar 2014	---
Machine Hours	24000	2000	480	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

West Fraser Mills

P.O. BOX 97

100 Mile House, BC

CA V0K 2Z0

Contact: JIM (MAINTENANCE)



OIL CONDITION

Visc @ 100°C	cSt	13.5	14.4	14.1	---
Oxidation (PA)	%	54	57	93	---

T: (250)395-8200

F:



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0	0.2	---
Nitration (PA)	%	48	48	108	---
Sulfation (PA)	%	52	57	70	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	8	11	---
Sodium	ppm	<1	1	<1	---
Potassium	ppm	<1	<1	3	---

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.



WEAR METALS

Iron	ppm	3	3	44	---
Copper	ppm	<1	2	317	---
Lead	ppm	0	<1	18	---
Tin	ppm	0	0	3	---
Aluminum	ppm	2	3	20	---
Chromium	ppm	0	<1	1	---
Molybdenum	ppm	57	<1	<1	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	0	<1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1075	1971	2445	---
Magnesium	ppm	871	10	18	---
Zinc	ppm	1105	1100	945	---
Phosphorus	ppm	973	943	768	---
Barium	ppm	0	0	29	---
Boron	ppm	12	68	10	---

Depot: WES100

Unique No: 5733654

Signed: Wes Davis

Report Date: 20 Feb 2024



GRAPHS

