

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A904 056759-005 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 40



LIEBHERR CANADA LTEE
 444 AVENUE DE LA FRICHE
 DOLBEAU-MISTASSINI, QC
 CA G8L 3M7
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SAMPLE INFORMATION

Sample Number	LH	LH	---	---
Sample Date	04 Jan 2024	18 Oct 2023	---	---
Machine Hours	14788	14788	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	SEVERE	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	11.5	13.1	---	---
Oxidation (PA)	%	51	63	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0	0.7	---	---
Nitration (PA)	%	38	76	---	---
Sulfation (PA)	%	48	65	---	---
Glycol	%	0.326	NEG	---	---
Fuel	%	0.6	<1.0	---	---
Silicon	ppm	8	7	---	---
Sodium	ppm	24	5	---	---
Potassium	ppm	2	2	---	---



WEAR METALS

Iron	ppm	3	18	---	---
Copper	ppm	43	5	---	---
Lead	ppm	4	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	3	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	63	12	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	74	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1065	1704	---	---
Magnesium	ppm	943	444	---	---
Zinc	ppm	1186	1099	---	---
Phosphorus	ppm	1023	958	---	---
Barium	ppm	2	<1	---	---
Boron	ppm	11	64	---	---

Diagnosis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. All component wear rates are normal. Fuel content negligible. Test for glycol is positive. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

Depot: LBADOL
 Unique No: 5707777
 Signed: Kevin Marson
 Report Date: 08 Jan 2024



GRAPHS

