

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 100676 - Diesel Engine

Sample No: LH0280916

Oil Type: {unknown}



R J MACISAAC CONSTRUCTION LTD
 70 WEST ST, SUITE #1
 ANTIGONISH, NS
 CA B2G 2X7
 Contact: Service Manager
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SAMPLE INFORMATION

Sample Number	LH0280916	LH0260314	LH0230430	---
Sample Date	29 Jan 2024	01 Jun 2023	24 Jul 2022	---
Machine Hours	18585	0	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	11.7	12.2	12.8	---
Oxidation (PA)	%	90	92	68	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	90	94	65	---
Sulfation (PA)	%	64	65	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	2	<1.0	<1.0	---
Silicon	ppm	6	10	10	---
Sodium	ppm	5	4	2	---
Potassium	ppm	3	1	1	---



WEAR METALS

Iron	ppm	8	8	4	---
Copper	ppm	7	8	3	---
Lead	ppm	<1	<1	2	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	3	2	3	---
Chromium	ppm	<1	<1	0	---
Molybdenum	ppm	56	70	144	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	840	960	1532	---
Magnesium	ppm	1086	1104	639	---
Zinc	ppm	1179	1180	805	---
Phosphorus	ppm	972	1044	704	---
Barium	ppm	0	0	0	---
Boron	ppm	20	28	337	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Depot: RJMANT
 Unique No: 5723677
 Signed: Wes Davis
 Report Date: 12 Feb 2024



GRAPHS

