

LIEBHERR

CONSTRUCTION EQUIPMENT



106718 - Diesel Engine

Sample No: LH0270326

Oil Type: DIESEL ENGINE OIL SAE 40



Sample Information

Sample Number	LH0270326	LH0279008	---	---
Sample Date	07 May 2024	20 Nov 2023	---	---
Machine Hours	11976	11058	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
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Oil Condition

Visc @ 100°C	cSt	13.4	13.7	---	---
Oxidation (PA)	%	65	63	---	---



Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	73	69	---	---
Sulfation (PA)	%	51	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	4	---	---
Sodium	ppm	1	1	---	---
Potassium	ppm	<1	0	---	---

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	5	5	---	---
Copper	ppm	1	<1	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	2	<1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	58	58	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	1004	1052	---	---
Magnesium	ppm	989	961	---	---
Zinc	ppm	1185	1175	---	---
Phosphorus	ppm	1017	987	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	4	1	---	---

Depot: LIEMIS
 Unique No: 5775159
 Signed: Wes Davis
 Report Date: 08 May 2024



Graphs

