

LIEBHERR

CONSTRUCTION EQUIPMENT



[HAMMERSTONE] 16012 - Diesel Engine

Sample No: LH0265037

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH0265037	---	---	---
Sample Date	11 Jul 2023	---	---	---
Machine Hours	14609	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Liebherr-Canada Ltd.

Fort McKay Industrial Park, Lot No. 12 and 13
 Fort McMurray, AB
 CA T9H 5N3
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 F:



OIL CONDITION

Visc @ 100°C	cSt	13.9	---	---	---
Oxidation (PA)	%	98	---	---	---



CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	116	---	---	---
Sulfation (PA)	%	107	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	<1	---	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. 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	18	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	1	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2220	---	---	---
Magnesium	ppm	19	---	---	---
Zinc	ppm	1119	---	---	---
Phosphorus	ppm	1010	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	4	---	---	---

Depot: LIEFTM
 Unique No: 5607372
 Signed: Kevin Marson
 Report Date: 19 Jul 2023



GRAPHS

