

LIEBHERR

CONSTRUCTION EQUIPMENT



2008.03.0936 - Diesel Engine

Sample No: LH0266056

Oil Type: PETRO CANADA 15W40



SAMPLE INFORMATION

Sample Number	LH0266056	---	---	---
Sample Date	22 Aug 2023	---	---	---
Machine Hours	19367	---	---	---
Oil Hours	52	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR CANADA LTD. - REMAN
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
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OIL CONDITION

Visc @ 100°C	cSt	14.0	---	---	---
Oxidation (PA)	%	49	---	---	---



CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	49	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	15	---	---	---
Potassium	ppm	1	---	---	---



WEAR METALS

Iron	ppm	6	---	---	---
Copper	ppm	12	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	67	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1948	---	---	---
Magnesium	ppm	245	---	---	---
Zinc	ppm	1156	---	---	---
Phosphorus	ppm	1049	---	---	---
Barium	ppm	27	---	---	---
Boron	ppm	284	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: REMAN
 Unique No: 5632316
 Signed: Kevin Marson
 Report Date: 30 Aug 2023



GRAPHS

