

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR 72413 - Diesel Engine

Sample No: LH0287940

Oil Type: IRVING 15W40



#### SAMPLE INFORMATION

Sample Number	LH0287940	---	---	---
Sample Date	22 Mar 2024	---	---	---
Machine Hours	710	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

**J D IRVING LIMITED**  
 300 UNION STREET  
 SAINT JOHN, NB  
 CA E2L 4M3  
 Contact: Lance Henry  
 henry.lance@jdirving.com  
 T:  
 F:



#### OIL CONDITION

Visc @ 100°C	cSt	13.2	---	---	---
Oxidation (PA)	%	58	---	---	---



#### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	2	---	---	---



#### WEAR METALS

Iron	ppm	15	---	---	---
Copper	ppm	3	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	1	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	3	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	1403	---	---	---
Magnesium	ppm	599	---	---	---
Zinc	ppm	1101	---	---	---
Phosphorus	ppm	960	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	114	---	---	---

#### 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: JDISAI  
 Unique No: 5749732  
 Signed: Wes Davis  
 Report Date: 26 Mar 2024



### GRAPHS

