

LIEBHERR

CONSTRUCTION EQUIPMENT



[[ROCK ROAD]] ROADTECRP190E 4130 - Diesel Engine

Sample No: LH0257952

Oil Type: DIESEL ENGINE OIL SAE 15W40



SAMPLE INFORMATION

Sample Number	LH0257952	---	---	---
Sample Date	25 Jul 2023	---	---	---
Machine Hours	3460	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

FINKBINER EQUIPMENT CO.

15 W 400 N FRONTAGE RD
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US 60527
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OIL CONDITION

Visc @ 100°C	cSt	12.1	---	---	---
Base Number (BN)	mg KOH/g	7.1	---	---	---
Oxidation (PA)	%	76	---	---	---



CONTAMINATION

Soot %	%	0.1	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	4.4	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	1	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	11	---	---	---
Copper	ppm	4	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	15	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

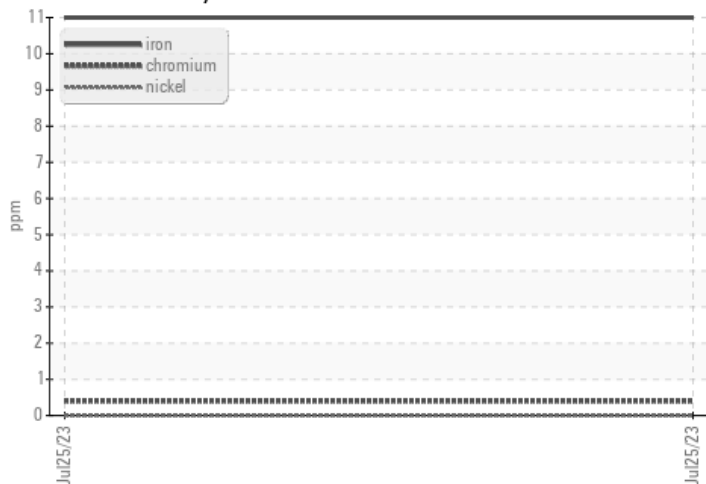
Calcium	ppm	1365	---	---	---
Magnesium	ppm	554	---	---	---
Zinc	ppm	796	---	---	---
Phosphorus	ppm	613	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	39	---	---	---

Depot: LEC0033
Unique No: 10631906
Signed: Wes Davis
Report Date: 05 Sep 2023

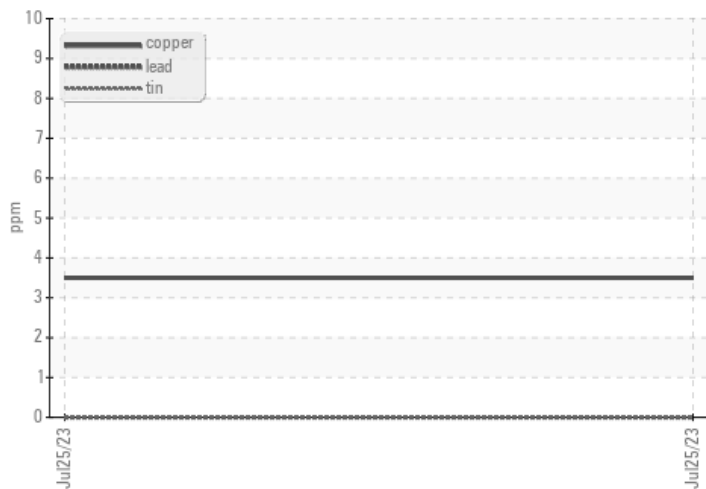


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

