

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 1215-106088 - Diesel Engine

Sample No: LH0272336

Oil Type: DIESEL ENGINE OIL SAE 15W40



STUFF RECYCLING
6169 LEXINGTON ROAD
WINCHESTER, KY
US 40391
Contact: Service Manager



Sample Information

Sample Number	LH0272336	LH0258318	---	---
Sample Date	06 Jun 2024	11 Aug 2023	---	---
Machine Hours	12076	10203	---	---
Oil Hours	0	6	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---



Oil Condition

Visc @ 100°C	cSt	12.1	12.18	---	---
Base Number (BN)	mg KOH/g	6.3	8.6	---	---
Oxidation (PA)	%	51	49	---	---

T:
F:



Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0	---	---
Nitration (PA)	%	64	53	---	---
Sulfation (PA)	%	50	48	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	6	---	---
Sodium	ppm	5	1	---	---
Potassium	ppm	5	4	---	---

Diagnosis

No corrective action is recommended at this time. 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	<1	4	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	3	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	4	2	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	<1	---	---
Vanadium	ppm	0	0	---	---



Additives

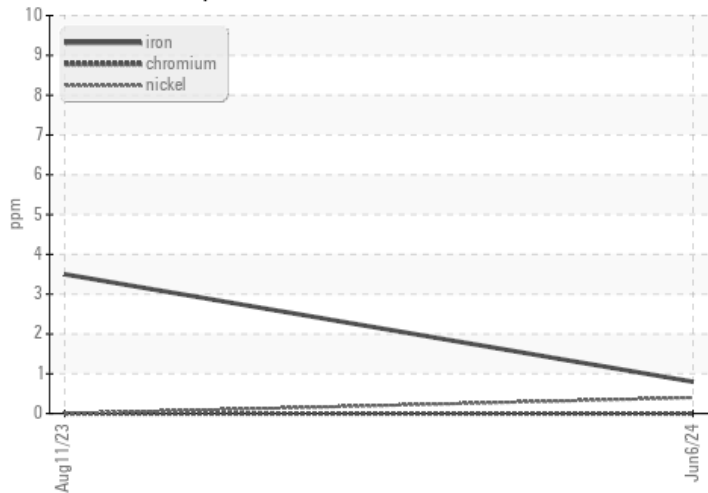
Calcium	ppm	1346	1256	---	---
Magnesium	ppm	686	657	---	---
Zinc	ppm	807	774	---	---
Phosphorus	ppm	702	694	---	---
Barium	ppm	0	0	---	---
Boron	ppm	118	104	---	---

Depot: STUWIN
Unique No: 11076919
Signed: Sean Felton
Report Date: 17 Jun 2024

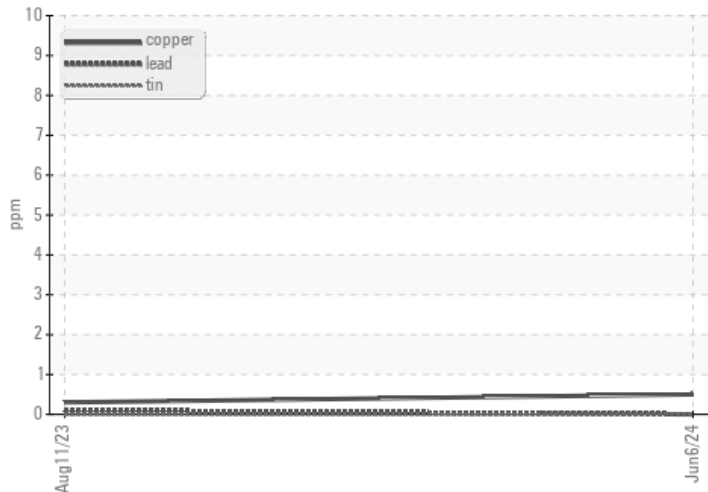


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

