LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH30M 151954-1253 - Diesel Engine

Sample No: LH0272372

Oil Type: DIESEL ENGINE OIL SAE 5W30

RECO EQUIPMENT INC
8075 PRODUCTION DRIVE
FLORENCE, KY
US 41042
Contact: TRACEY EDGERTON
tedgerton@recoequip.com
T:
F: (859)727-7974

Sample Information

Sample Number		**LH0272372**	LH0244720	---	---
Sample Date		**10 Jun 2024**	01 Apr 2024	---	---
Machine Hours		**1388**	595	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Changed**	Changed	---	---
Sample Status		**NORMAL**	ABNORMAL	---	---

Oil Condition

Visc @ 100°C	cSt	**11.9**	10.8	---	---
Base Number (BN)	mg KOH/g	**8.0**	3.9	---	---
Oxidation (PA)	%	**115**	199	---	---

Contamination

Water	%	**NEG**	NEG	---	---
Soot %	%	**0.1**	0.1	---	---
Nitration (PA)	%	**99**	98	---	---
Sulfation (PA)	%	**66**	107	---	---
Glycol	%	**NEG**	NEG	---	---
Fuel	%	**<1.0**	<1.0	---	---
Silicon	ppm	**7**	8	---	---
Sodium	ppm	**2**	4	---	---
Potassium	ppm	**3**	4	---	---

Wear Metals

Iron	ppm	**4**	10	---	---
Copper	ppm	**55**	275	---	---
Lead	ppm	**0**	2	---	---
Tin	ppm	**<1**	2	---	---
Aluminum	ppm	**2**	5	---	---
Chromium	ppm	**<1**	1	---	---
Molybdenum	ppm	**45**	41	---	---
Nickel	ppm	**0**	<1	---	---
Titanium	ppm	**0**	<1	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**<1**	1	---	---
Vanadium	ppm	**0**	0	---	---

Additives

Calcium	ppm	**1395**	1339	---	---
Magnesium	ppm	**916**	843	---	---
Zinc	ppm	**880**	891	---	---
Phosphorus	ppm	**720**	731	---	---
Barium	ppm	**3**	25	---	---
Boron	ppm	**64**	89	---	---

Diagnosis

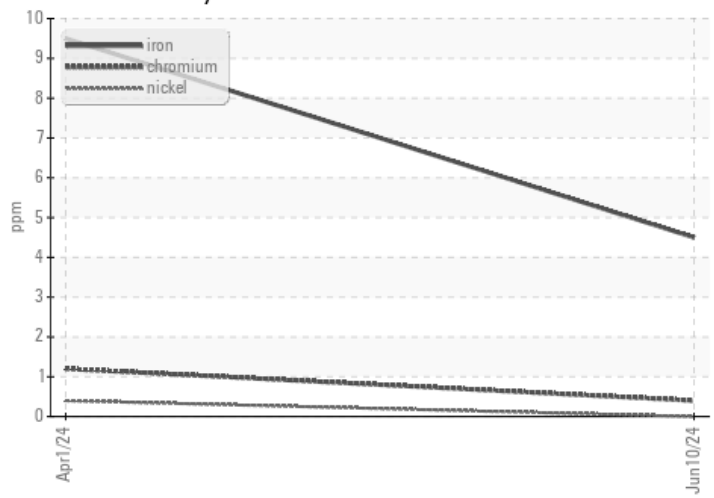
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 suitable for further service.

Depot: LEC0082
Unique No: 11085729
Signed: Angela Borella
Report Date: 19 Jun 2024

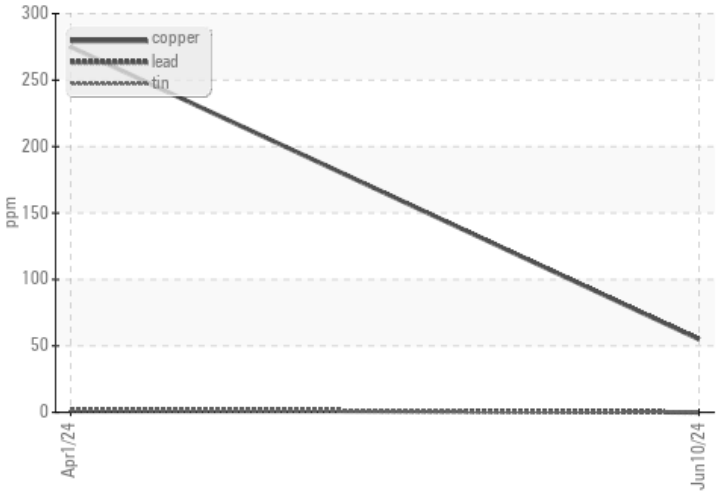
LIEBHERR
CONSTRUCTION EQUIPMENT

Graphs

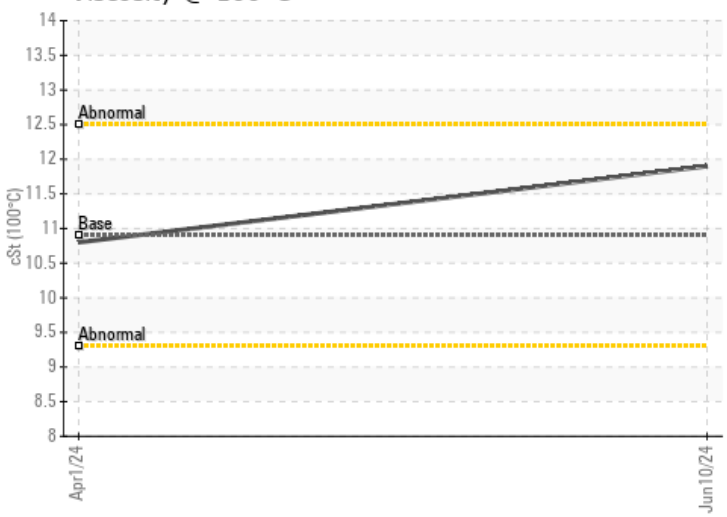
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number