

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR TT&ER954C 24925 (S/N 976-24925) - Main Engine

Sample No: LH0293228

Oil Type: LIEBHERR MOTOROIL 10W-40 LOW ASH



#### Sample Information

Sample Number	LH0293228	---	---	---
Sample Date	25 Jun 2024	---	---	---
Machine Hours	11252	---	---	---
Oil Hours	823	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

#### LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD  
 RALEIGH, NC  
 US 27603  
 Contact: Timothy Bailey  
 timothy.bailey@liebherr.com  
 T:  
 F: (919)329-0084



#### Oil Condition

Visc @ 100°C	cSt	14.9	---	---	---
Base Number (BN)	mg KOH/g	7.3	---	---	---
Oxidation (PA)	%	74	---	---	---

#### Diagnosis

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.



#### Contamination

Water	%	NEG	---	---	---
Soot %	%	2.7	---	---	---
Nitration (PA)	%	87	---	---	---
Sulfation (PA)	%	70	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	7	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	4	---	---	---



#### Wear Metals

Iron	ppm	33	---	---	---
Copper	ppm	3	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	42	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



#### Additives

Calcium	ppm	1553	---	---	---
Magnesium	ppm	1088	---	---	---
Zinc	ppm	1411	---	---	---
Phosphorus	ppm	1159	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	24	---	---	---

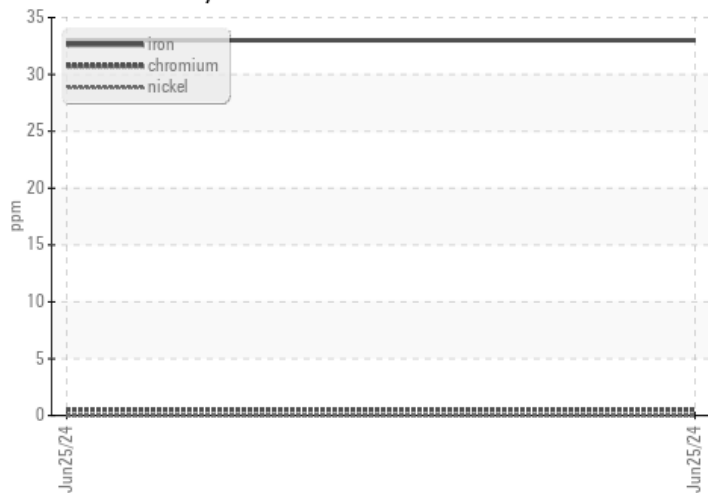
Depot: LIEBHERRNC  
 Unique No: 11101437  
 Signed: Don Baldrige  
 Report Date: 30 Jun 2024

Submitted By: SHERWOOD LUCAS

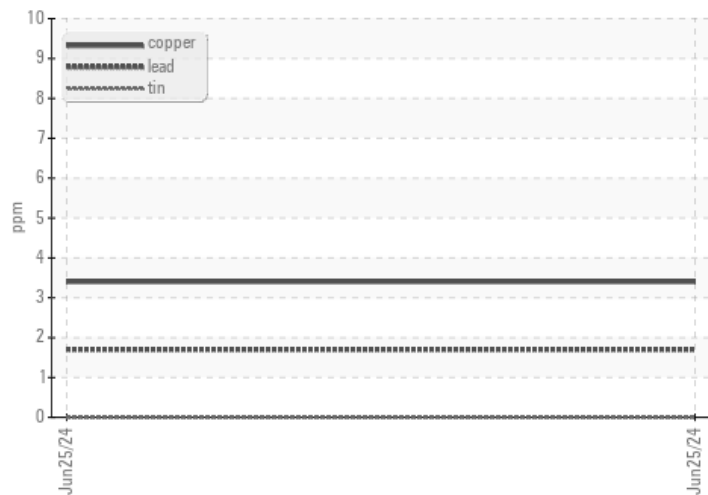


### Graphs

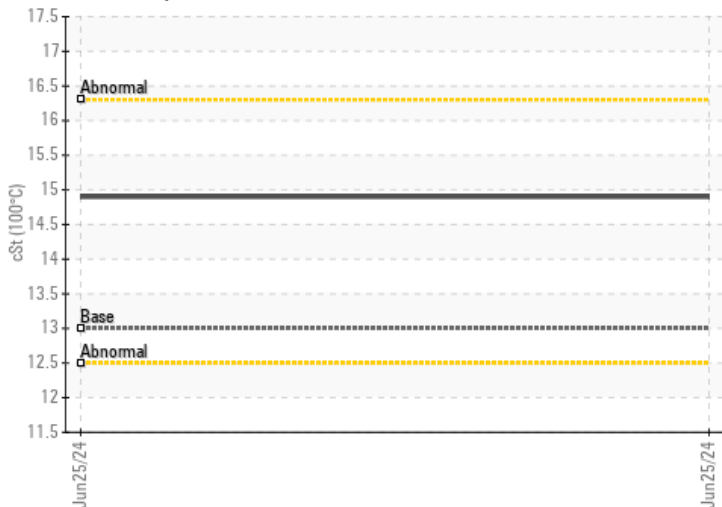
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

