

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR TA230 138136-1513 - Hydraulic System

Sample No: LHMC116631

Oil Type: LIEBHERR HYDRAULIC HVI



TRACEY ROAD EQUIPMENT
 6803 MANLIUS CENTER RD
 EAST SYRACUSE, NY
 US 13057
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 T:
 F: (315)437-4041



SAMPLE INFORMATION

Sample Number	LHMC116631	---	---	---
Sample Date	06 Nov 2023	---	---	---
Machine Hours	1450	---	---	---
Oil Hours	1450	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ATTENTION	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 46.6	---	---	---
Acid Number (AN)	mg KOH/g	● 1.13	---	---	---



CONTAMINATION

Particles >4µm		● 20417	---	---	---
Particles >6µm		● 2956	---	---	---
Particles >14µm		● 107	---	---	---
ISO 4406:1999 (c)		22/19/14	---	---	---
Silicon	ppm	● 3	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● 0	---	---	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	● 1222	---	---	---
Magnesium	ppm	● 3	---	---	---
Zinc	ppm	● 584	---	---	---
Phosphorus	ppm	● 550	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Diagnosis

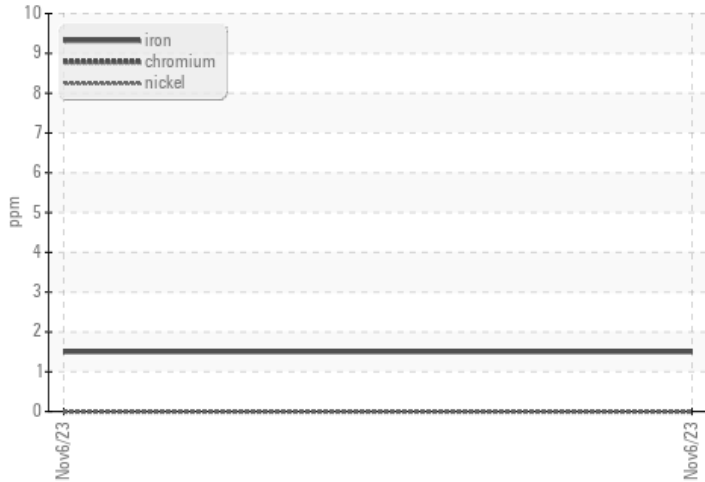
Resample at the next service interval to monitor. All component wear rates are normal. No abnormal wear or visible metal detected. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid.

Depot: TRAEAS
Unique No: 10741375
Signed: Don Baldrige
Report Date: 16 Nov 2023

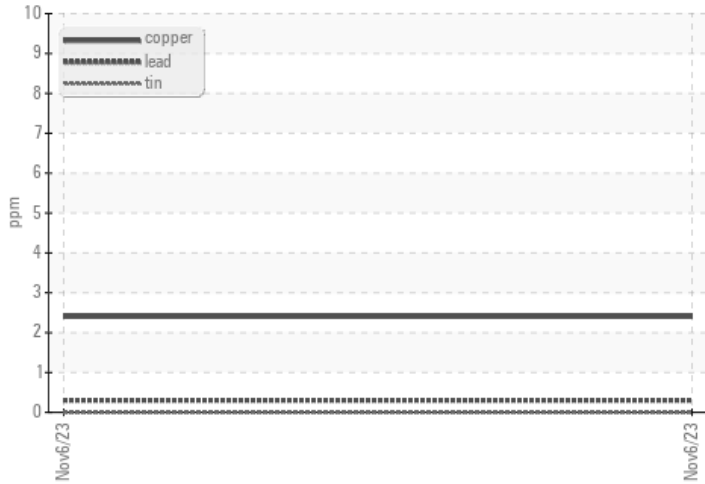


GRAPHS

Ferrous Alloys



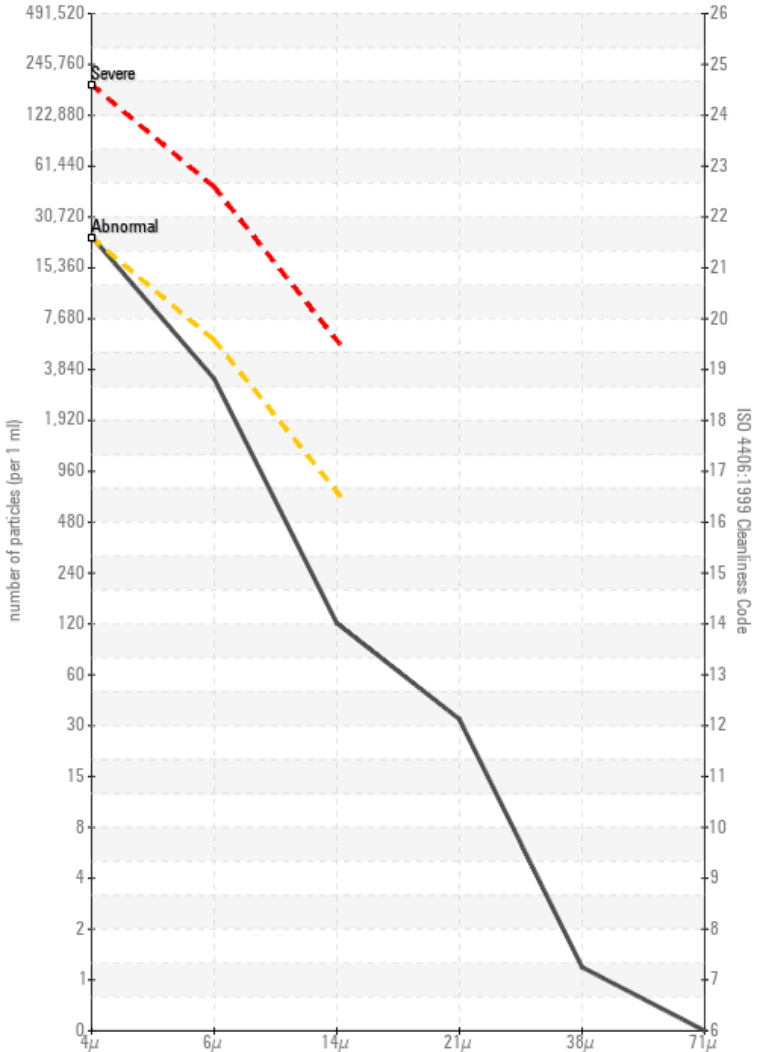
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

