



CONSTRUCTION EQUIPMENT

TMR-OCALA 31ST ST 634300 423144 VOLVO L90H 623745 - HYDRAULIC SYSTEM



Sample No: VCP443053
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 634300



SAMPLE INFORMATION

Sample Number	VCP443053	DJJ0018204	---	---
Sample Date	20 Nov 2023	13 Feb 2023	---	---
Machine Hours	8237	6858	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

TRADEMARK METALS RECYCLING - OCALA
1854 NW 31ST STREET
OCALA, FL
US 34475
Contact: RYAN BOWDEN



OIL CONDITION

Visc @ 40°C	cSt	▲ 57.86	■ 53.5	---	---
Acid Number (AN)	mg KOH/g	■ 0.37	■ 0.33	---	---

T:
F: (352)351-6847



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 32965	▲ 7033	---	---
Particles >6µm		▲ 5547	▲ 2090	---	---
Particles >14µm		▲ 360	■ 155	---	---
ISO 4406:1999 (c)		22/20/16	20/18/14	---	---
Silicon	ppm	■ 2	■ 2	---	---
Sodium	ppm	■ 0	■ 1	---	---
Potassium	ppm	■ 2	■ 0	---	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 3	■ 3	---	---
Copper	ppm	■ 2	■ 1	---	---
Lead	ppm	■ <1	■ 0	---	---
Tin	ppm	■ <1	■ 0	---	---
Aluminum	ppm	■ 2	■ <1	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 6	■ 4	---	---
Nickel	ppm	■ <1	■ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ <1	■ 0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 105	113	---	---
Magnesium	ppm	■ 31	■ 25	---	---
Zinc	ppm	■ 397	■ 370	---	---
Phosphorus	ppm	■ 271	■ 308	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 7	■ 6	---	---

Depot: TRAOCA
Unique No: 10764982
Signed: Jonathan Hester
Report Date: 06 Dec 2023

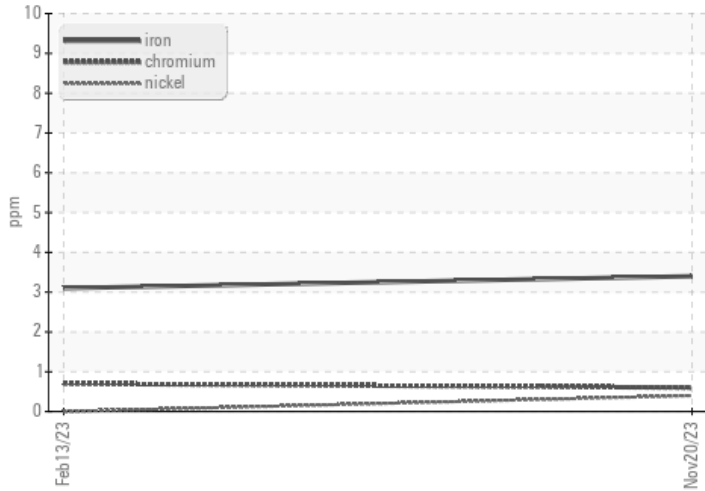


CONSTRUCTION EQUIPMENT

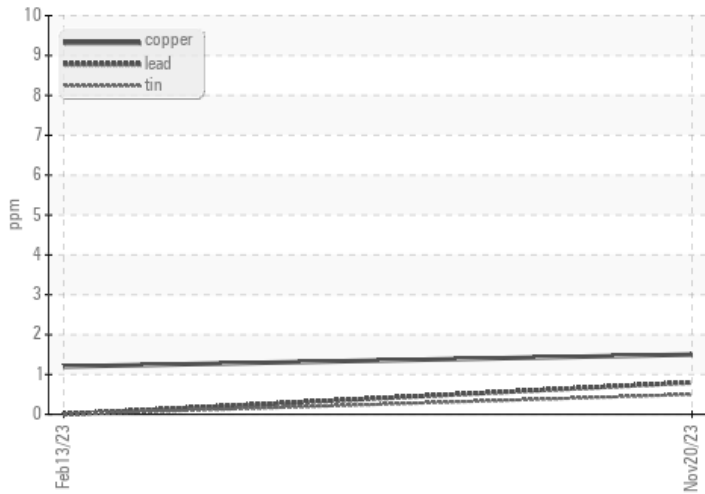


GRAPHS

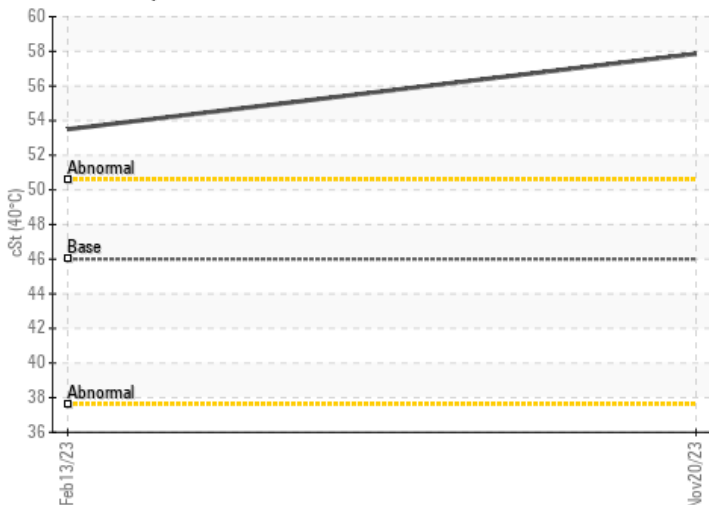
Ferrous Alloys



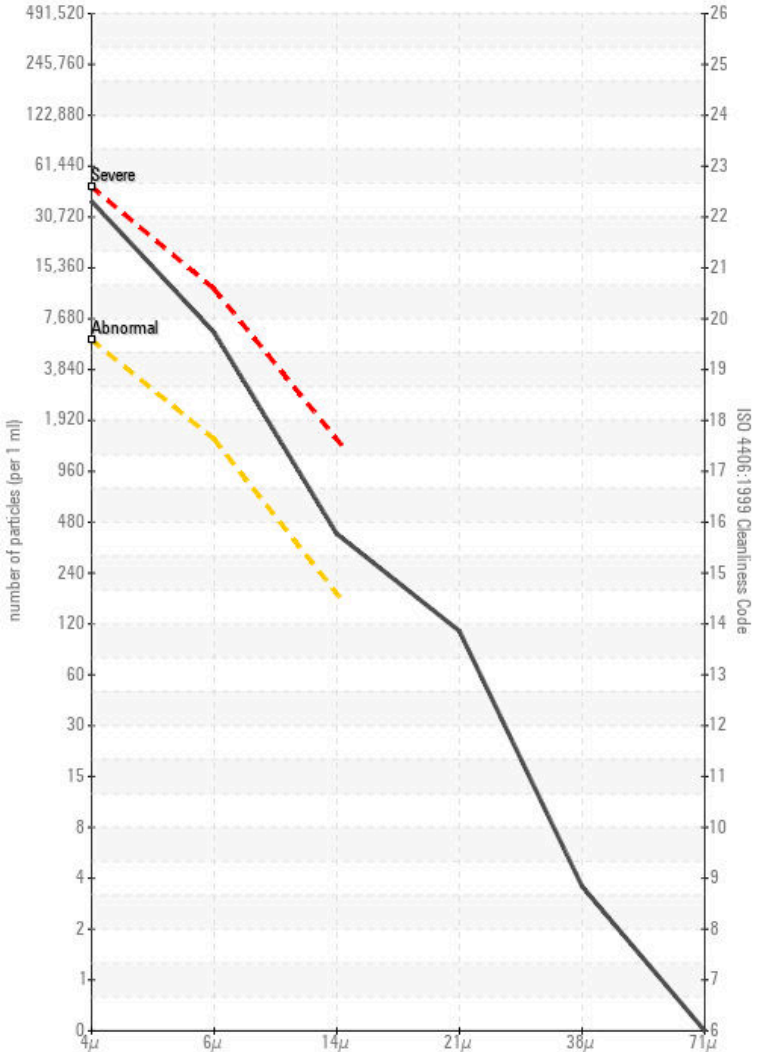
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

