



CONSTRUCTION EQUIPMENT

495 VOLVO L90H 624946 - HYDRAULIC SYSTEM



Sample No: VCP391417
Oil Type: GULF TO-4 10W
Job No: 495



SAMPLE INFORMATION

Sample Number	VCP391417	VCP263728	VCP281700	---
Sample Date	08 Feb 2024	09 Mar 2021	22 Oct 2020	---
Machine Hours	4775	1528	2023	---
Oil Hours	781	0	0	---
Oil Changed	N/A	Not Changd	Not Changd	---
Sample Status	ATTENTION	NORMAL	ATTENTION	---

SODERBERG CONSTRUCTION
 460 YORK STREET
 CARIBOU, ME
 US 04736
 Contact: GREG LANDEEN
 glandeen@mfx.net
 T: (207)498-6300
 F: (207)498-6535

OIL CONDITION

Visc @ 40°C	cSt	43.3	43.7	41.8	---
Acid Number (AN)	mg KOH/g	1.11	0.386	0.405	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		▲ 5185	4595	▲ 9674	---
Particles >6µm		■ 685	256	▲ 1720	---
Particles >14µm		■ 52	15	▲ 204	---
ISO 4406:1999 (c)		20/17/13	19/15/11	20/18/15	---
Silicon	ppm	■ 14	4	4	---
Sodium	ppm	■ 4	2	3	---
Potassium	ppm	■ 3	<1	<1	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	■ 11	5	6	---
Copper	ppm	■ 2	2	3	---
Lead	ppm	■ 1	1	2	---
Tin	ppm	■ <1	<1	<1	---
Aluminum	ppm	■ 2	0	1	---
Chromium	ppm	■ 1	<1	<1	---
Molybdenum	ppm	15	1	<1	---
Nickel	ppm	■ <1	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	<1	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	2087	523	445	---
Magnesium	ppm	17	4	5	---
Zinc	ppm	933	510	531	---
Phosphorus	ppm	718	398	419	---
Barium	ppm	5	0	0	---
Boron	ppm	18	4	13	---

Depot: SODCAR
Unique No: 10896523
Signed: Wes Davis
Report Date: 26 Feb 2024

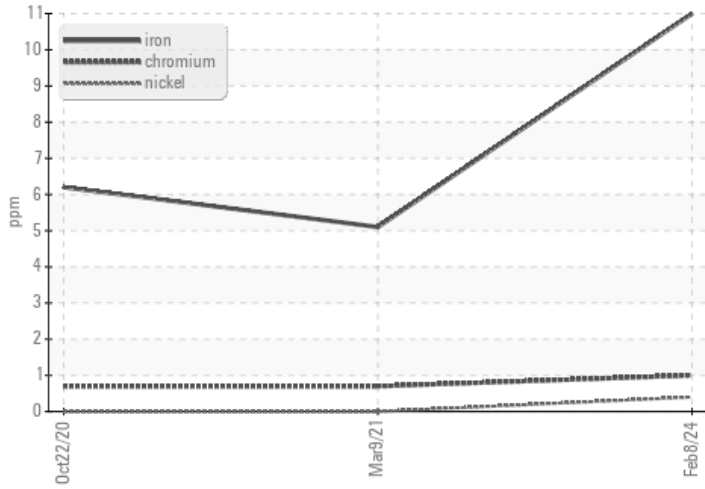


CONSTRUCTION EQUIPMENT

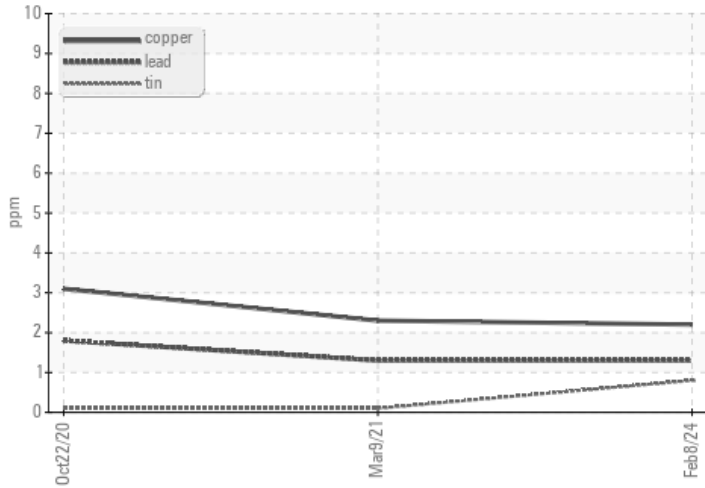


GRAPHS

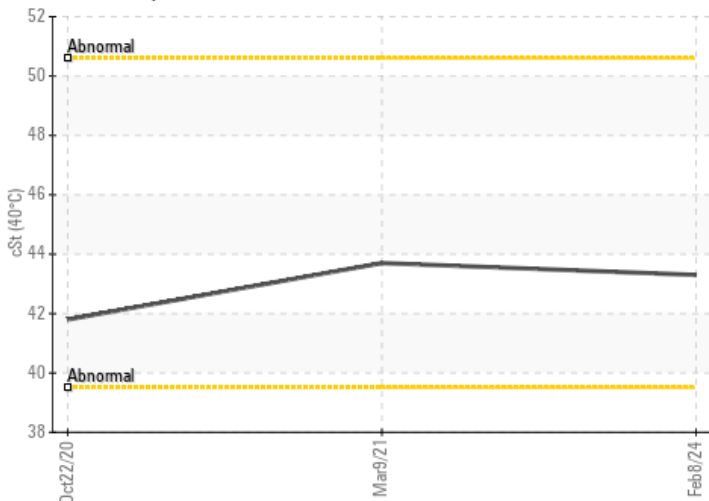
Ferrous Alloys



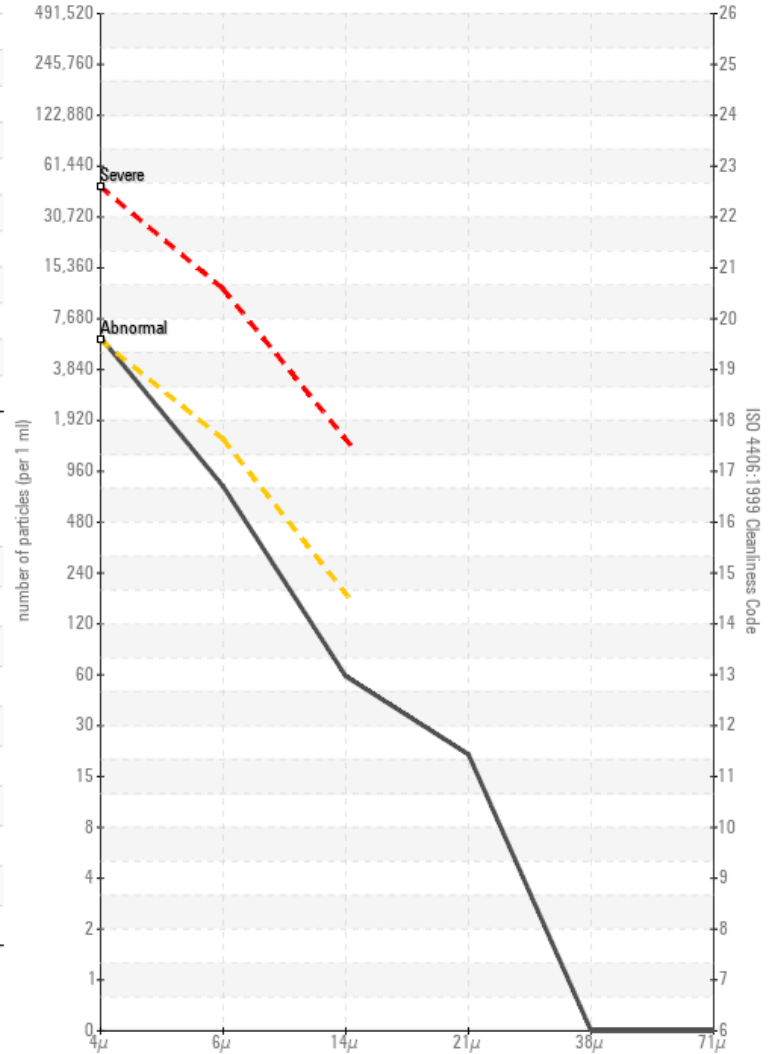
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

