CONSTRUCTION EQUIPMENT

SPM579166 VOLVO L110H 632385 - HYDRAULIC SYSTEM

Sample No: VCP416577
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM579166

ALTA EQUIPMENT CO - ORLAND PARK
5000 INDUSTRIAL HWY
GARY, IN
US 46406
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SAMPLE INFORMATION

Sample Number		**VCP416577**	VCP410961	---	---
Sample Date		**06 Jul 2023**	01 Mar 2023	---	---
Machine Hours		**1193**	796	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Not Changd**	Not Changd	---	---
Sample Status		**ABNORMAL**	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**45.4**	45.7	---	---
Acid Number (AN)	mg KOH/g	**0.41**	0.38	---	---

CONTAMINATION

Particles >4µm		**10942**	5166	---	---
Particles >6µm		▲ **3131**	831	---	---
Particles >14µm		▲ **403**	42	---	---
ISO 4406:1999 (c)		**21/19/16**	20/17/13	---	---
Silicon	ppm	**4**	4	---	---
Sodium	ppm	**0**	0	---	---
Potassium	ppm	**2**	0	---	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	**422**	477	---	---
Magnesium	ppm	**8**	7	---	---
Zinc	ppm	**551**	608	---	---
Phosphorus	ppm	**416**	485	---	---
Barium	ppm	**1**	0	---	---
Boron	ppm	**11**	12	---	---

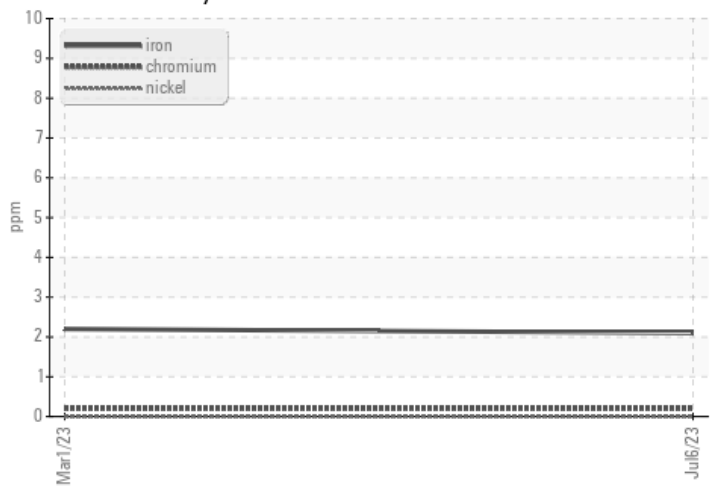
Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

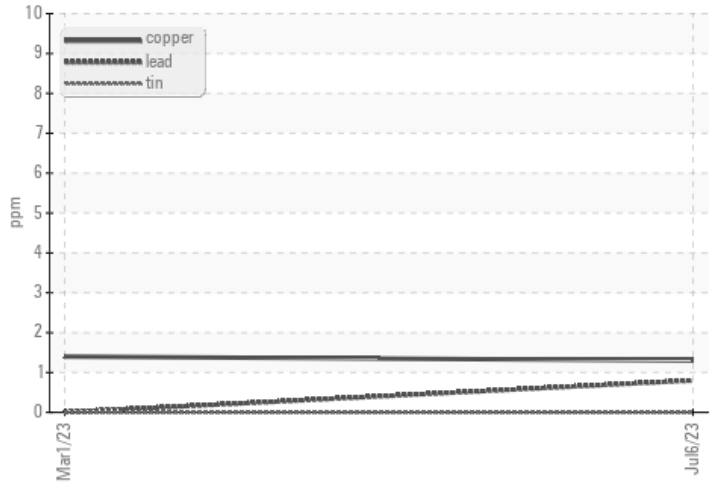
Depot: VOLVO8885
Unique No: 10574238
Signed: Wes Davis
Report Date: 27 Jul 2023

GRAPHS

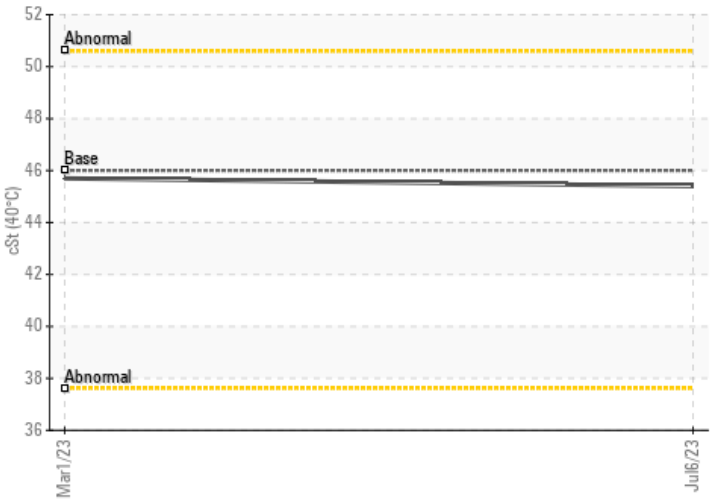
Ferrous Alloys



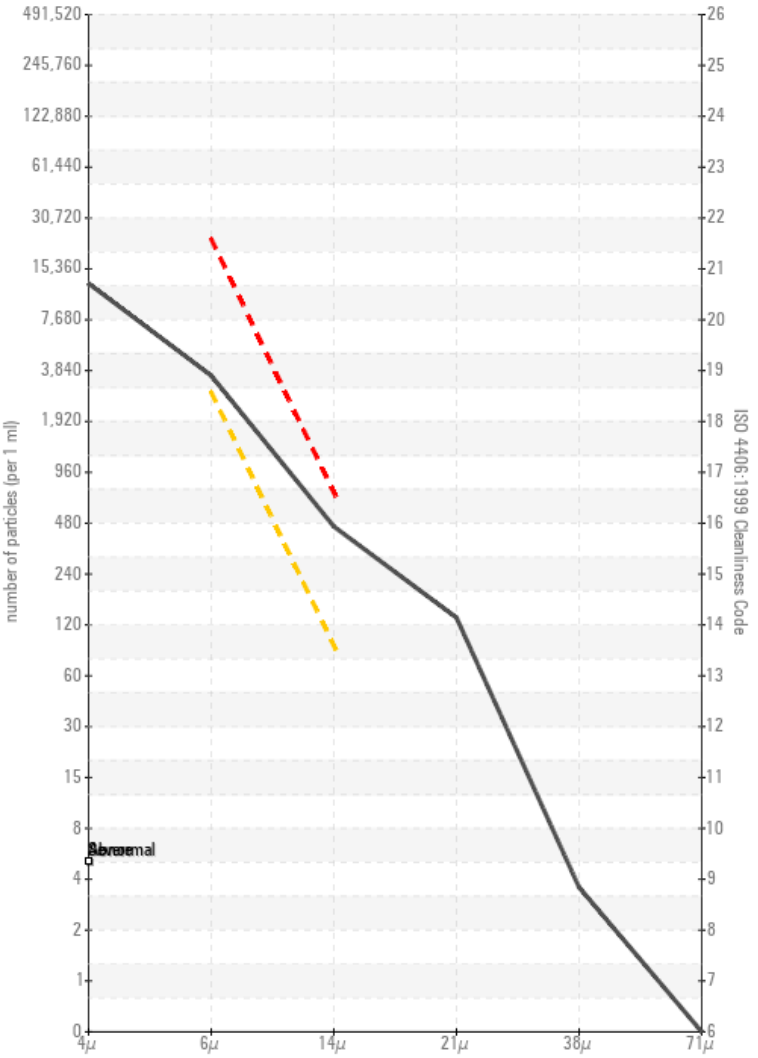
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number