



CONSTRUCTION EQUIPMENT

SW1020029 VOLVO L90F 68176 - HYDRAULIC SYSTEM



Sample No: VCP411481
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SW1020029



SAMPLE INFORMATION

Sample Number	VCP411481	VCP189463	---	---
Sample Date	09 Jun 2023	21 Jul 2017	---	---
Machine Hours	15077	9510	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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 1835 EAST UNIVERSITY DRIVE
 PHOENIX, AZ
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 F:

OIL CONDITION

Visc @ 40°C	cSt	█ 48.9	█ 42.44	---	---
Acid Number (AN)	mg KOH/g	█ 0.31	█ 0.421	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Particles 5-15µm	count	---	528233	---	---
Particles 15-25µm	count	---	11807	---	---
Particles 25-50µm	count	---	2058	---	---
Particles 50-100µm	count	---	43	---	---
Particles > 100µm	count	---	454	---	---
NAS Code		---	12	---	---
Particles >4µm		█ 22161	█ 33337	---	---
Particles >6µm		▲ 6292	▲ 5480	---	---
Particles >14µm		▲ 441	● 158	---	---
ISO 4406:1999 (c)		22/20/16	22/20/14	---	---
Silicon	ppm	█ 4	█ 14	---	---
Sodium	ppm	█ 0	█ 4	---	---
Potassium	ppm	█ 2	█ 2	---	---

Diagnosis

The oil change at the time of sampling has been noted. 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.

WEAR METALS

Iron	ppm	█ 3	█ 14	---	---
Copper	ppm	█ 1	█ 3	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ 4	---	---
Chromium	ppm	█ <1	█ 2	---	---
Molybdenum	ppm	█ <1	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 291	█ 121	---	---
Magnesium	ppm	█ 6	█ 2	---	---
Zinc	ppm	█ 461	█ 426	---	---
Phosphorus	ppm	█ 367	█ 328	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 2	---	---

Depot: PAVPHO
Unique No: 10521785
Signed: Wes Davis
Report Date: 20 Jun 2023

Contact/Location: FERNANDO PEREN - PAVPHO

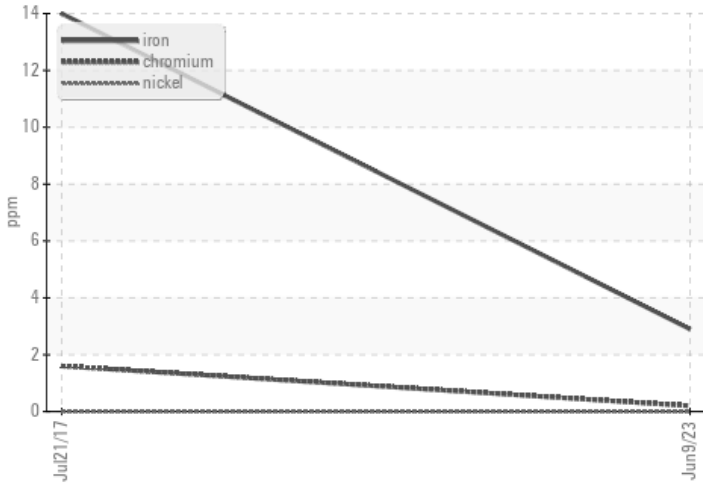


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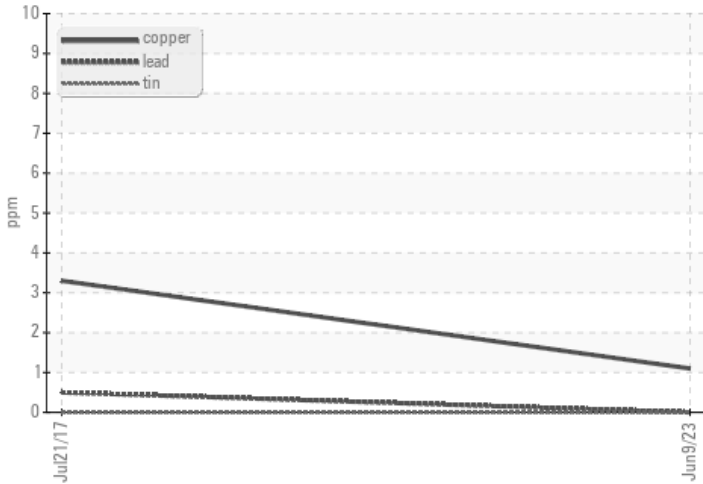


GRAPHS

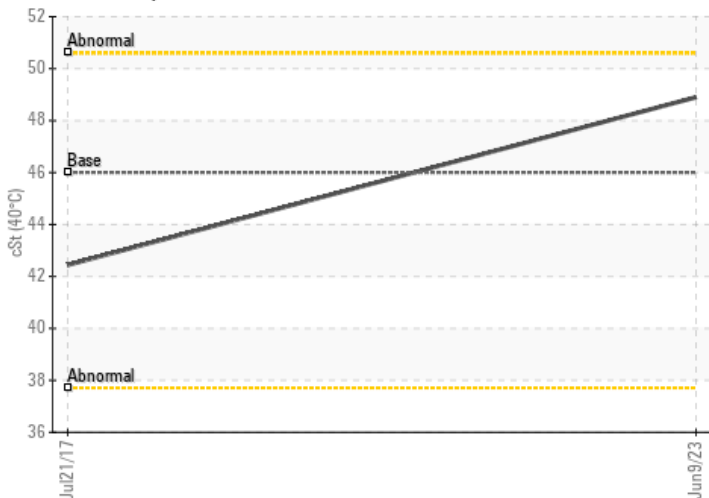
Ferrous Alloys



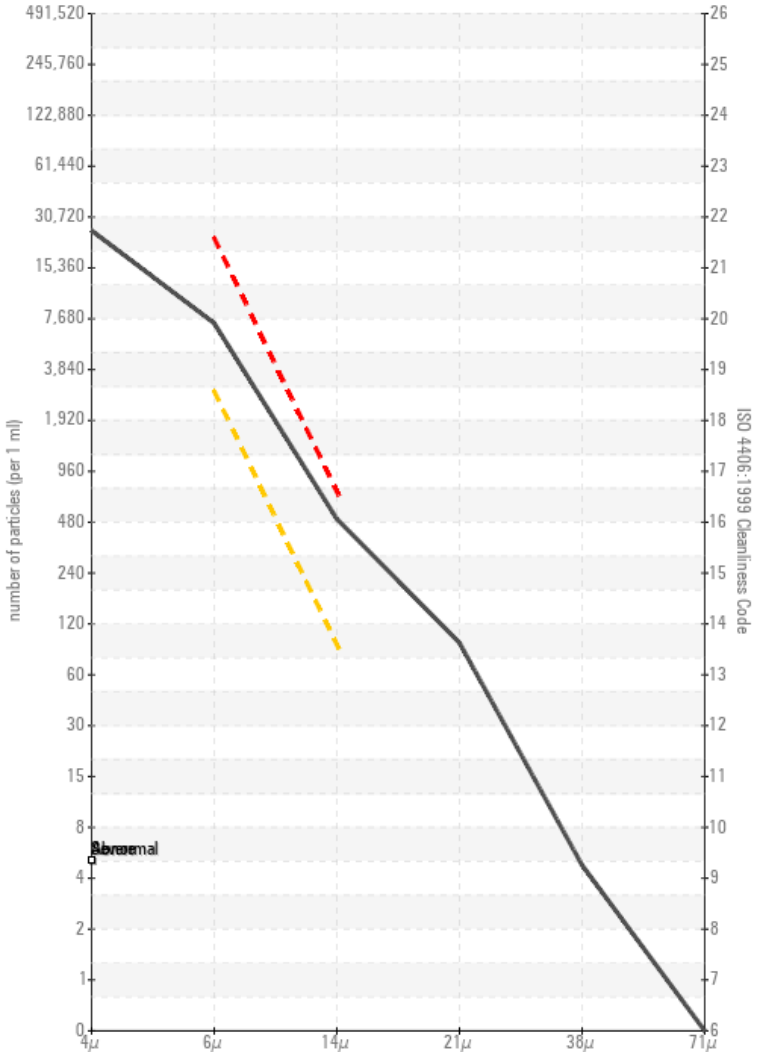
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

