CONSTRUCTION EQUIPMENT
VOLVO A45G 342577 - HYDRAULIC SYSTEM

Sample No: VCP423883
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:

117 - ASCENDUM MACHINERY INC - GREENVILLE
2002 N GREENE ST
GREENVILLE, NC
US 27834
Contact: ALLEN WILLIAMS
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SAMPLE INFORMATION

Sample Number		**VCP423883**	VCP389495	---	---
Sample Date		**14 Jun 2024**	12 Jun 2023	---	---
Machine Hours		**5306**	3914	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Not Changd**	Changed	---	---
Sample Status		**ABNORMAL**	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**41.8**	40.4	---	---
Acid Number (AN)	mg KOH/g	**0.32**	0.39	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Particles >4µm		**9398**	1147	---	---
Particles >6µm		**3426**	366	---	---
Particles >14µm		**441**	37	---	---
ISO 4406:1999 (c)		**20/19/16**	17/16/12	---	---
Silicon	ppm	**5**	6	---	---
Sodium	ppm	**<1**	2	---	---
Potassium	ppm	**1**	0	---	---

WEAR METALS

Iron	ppm	**8**	8	---	---
Copper	ppm	**2**	2	---	---
Lead	ppm	**2**	2	---	---
Tin	ppm	**<1**	<1	---	---
Aluminum	ppm	**2**	<1	---	---
Chromium	ppm	**<1**	<1	---	---
Molybdenum	ppm	**<1**	<1	---	---
Nickel	ppm	**<1**	0	---	---
Titanium	ppm	**<1**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**0**	<1	---	---
Vanadium	ppm	**<1**	0	---	---

ADDITIVES

Calcium	ppm	**56**	56	---	---
Magnesium	ppm	**2**	1	---	---
Zinc	ppm	**444**	451	---	---
Phosphorus	ppm	**331**	349	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**0**	0	---	---

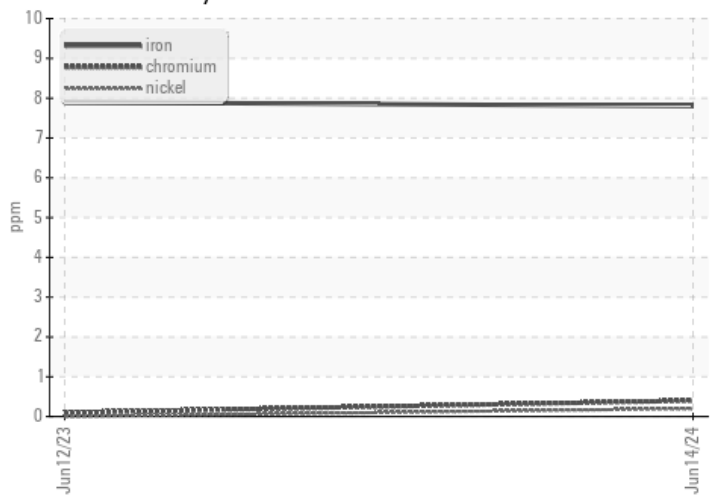
Diagnosis

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.

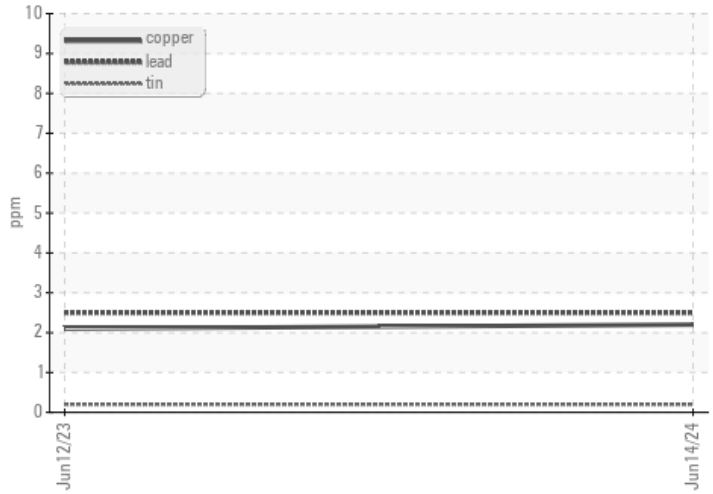
Depot: VOLVO8769
Unique No: 11111546
Signed: Wes Davis
Report Date: 05 Jul 2024

GRAPHS

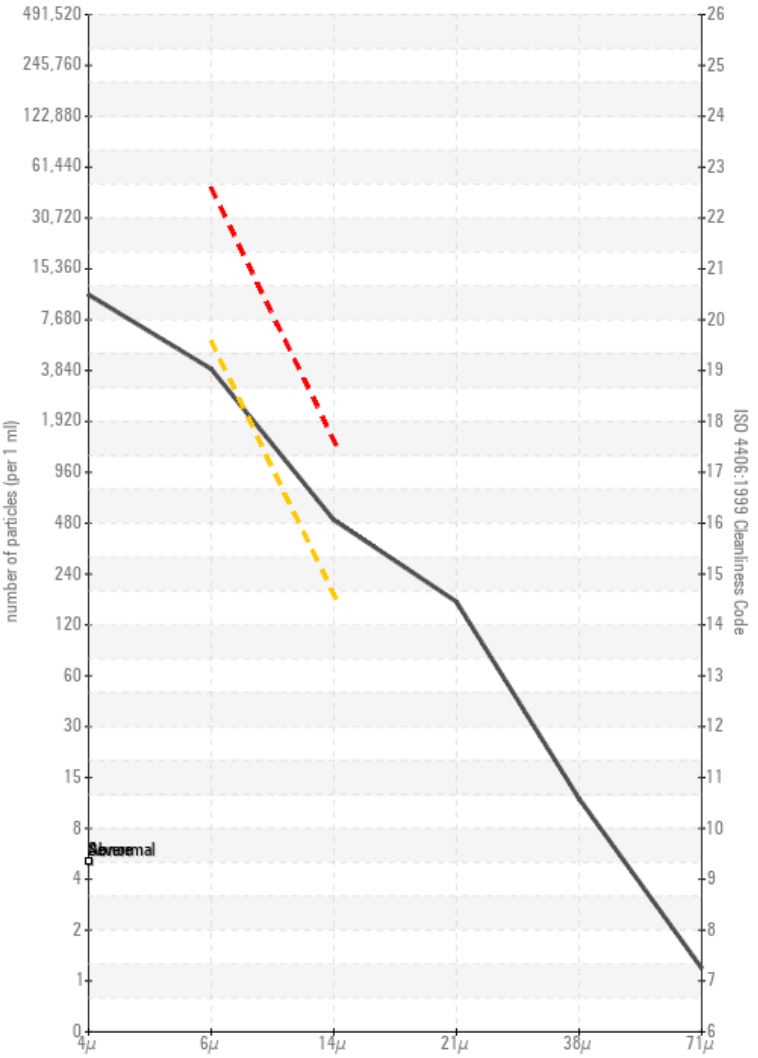
Ferrous Alloys



Non-ferrous Metals



Particle Count



Viscosity @ 40°C

Acid Number