CONSTRUCTION EQUIPMENT
VOLVO A45G 353220 - HYDRAULIC SYSTEM

Sample No: VCP437559D
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:

ALTA EQUIPMENT COMPANY
5151 DR MARTIN LUTHER KING BLVD
FORT MYERS, FL
US 33905
Contact: TODD LARK
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SAMPLE INFORMATION

Sample Number		**VCP437559D**	VCP438786	VCP426629	---
Sample Date		**26 Apr 2024**	22 Mar 2024	26 Jul 2023	---
Machine Hours		**3589**	3496	2142	---
Oil Hours		**0**	0	0	---
Oil Changed		**Not Changd**	Not Changd	Changed	---
Sample Status		**ABNORMAL**	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**45.8**	46.0	44.2	---
Acid Number (AN)	mg KOH/g	**0.61**	0.61	0.44	---

CONTAMINATION

Water	%	**NEG**	NEG	NEG	---
Particles >4µm		**31558**	3131	6041	---
Particles >6µm		**8726**	664	1395	---
Particles >14µm		**527**	55	66	---
ISO 4406:1999 (c)		**22/20/16**	19/17/13	20/18/13	---
Silicon	ppm	**14**	13	12	---
Sodium	ppm	**2**	1	2	---
Potassium	ppm	**0**	0	0	---

WEAR METALS

Iron	ppm	**6**	4	5	---
Copper	ppm	**2**	1	2	---
Lead	ppm	**1**	<1	1	---
Tin	ppm	**0**	0	0	---
Aluminum	ppm	**6**	5	4	---
Chromium	ppm	**0**	0	<1	---
Molybdenum	ppm	**<1**	0	<1	---
Nickel	ppm	**0**	0	0	---
Titanium	ppm	**0**	0	<1	---
Silver	ppm	**0**	0	0	---
Manganese	ppm	**0**	0	<1	---
Vanadium	ppm	**0**	0	<1	---

ADDITIVES

Calcium	ppm	**700**	681	203	---
Magnesium	ppm	**6**	5	4	---
Zinc	ppm	**604**	571	475	---
Phosphorus	ppm	**493**	472	378	---
Barium	ppm	**0**	0	0	---
Boron	ppm	**0**	0	0	---

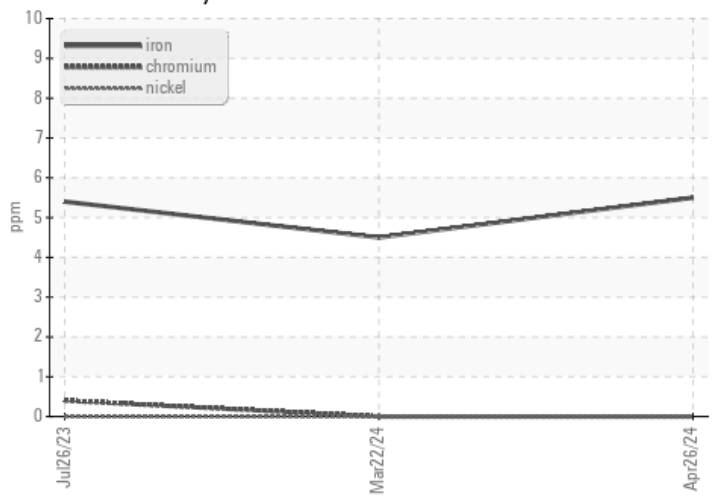
Diagnosis

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.

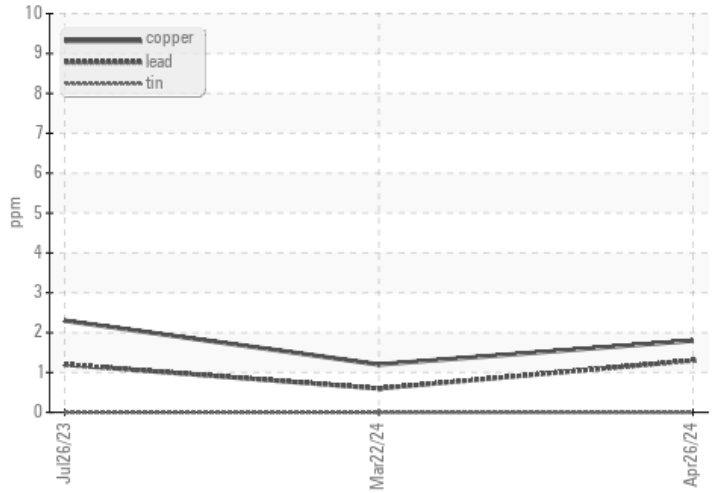
Depot: VOLVO0090
Unique No: 11006355
Signed: Wes Davis
Report Date: 02 May 2024

GRAPHS

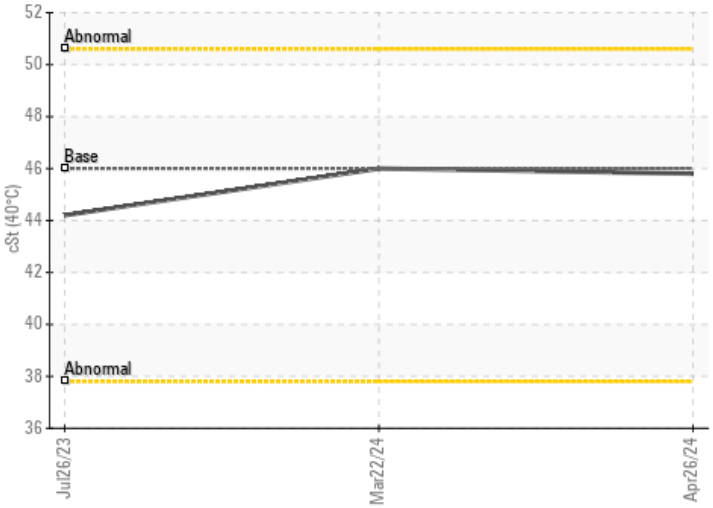
Ferrous Alloys



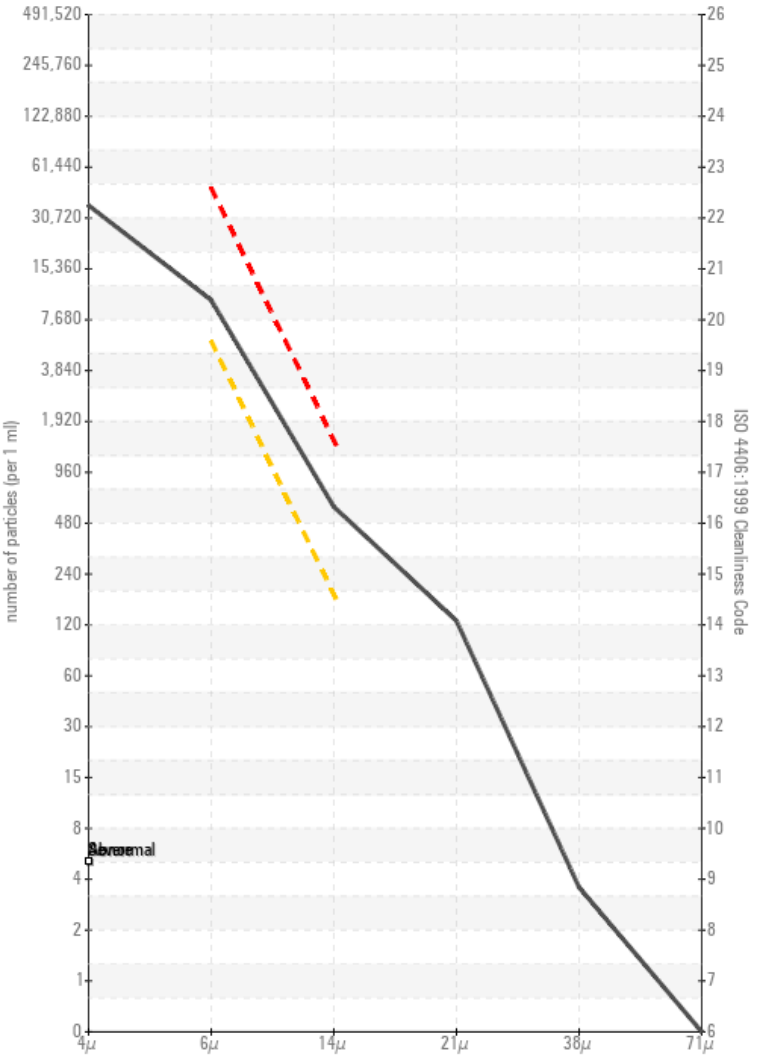
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number