CONSTRUCTION EQUIPMENT
587216 VOLVO L90H 624518 - HYDRAULIC SYSTEM

Sample No: VCP454586
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 587216

FORESTRY RESOURCES
4353 MICHIGAN LINK
FORT MYERS, FL
US 33916
Contact: Trey George
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T: (239)571-2345
F:

SAMPLE INFORMATION

Sample Number		**VCP454586**	VCP446386	VCP402837	---
Sample Date		**14 Jun 2024**	12 Apr 2024	22 Sep 2023	---
Machine Hours		**14969**	14537	13591	---
Oil Hours		**0**	0	0	---
Oil Changed		**Not Changd**	Changed	N/A	---
Sample Status		**ABNORMAL**	ABNORMAL	ABNORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**54.6**	57.9	47.5	---
Acid Number (AN)	mg KOH/g	**0.505**	0.51	1.36	---

CONTAMINATION

Water	%	**NEG**	NEG	NEG	---
Particles >4µm		**19248**	82059	13561	---
Particles >6µm		**4997**	17740	397	---
Particles >14µm		**262**	1013	15	---
ISO 4406:1999 (c)		**21/19/15**	24/21/17	21/16/11	---
Silicon	ppm	**2**	4	3	---
Sodium	ppm	**1**	2	<1	---
Potassium	ppm	**<1**	3	5	---

WEAR METALS

Iron	ppm	**<1**	5	3	---
Copper	ppm	**<1**	2	12	---
Lead	ppm	**0**	<1	<1	---
Tin	ppm	**0**	<1	<1	---
Aluminum	ppm	**0**	0	<1	---
Chromium	ppm	**<1**	1	0	---
Molybdenum	ppm	**3**	5	3	---
Nickel	ppm	**0**	0	0	---
Titanium	ppm	**0**	0	0	---
Silver	ppm	**0**	0	0	---
Manganese	ppm	**0**	<1	<1	---
Vanadium	ppm	**0**	0	0	---

ADDITIVES

Calcium	ppm	**232**	213	2209	---
Magnesium	ppm	**25**	26	16	---
Zinc	ppm	**498**	492	1136	---
Phosphorus	ppm	**415**	446	906	---
Barium	ppm	**0**	0	0	---
Boron	ppm	**10**	8	0	---

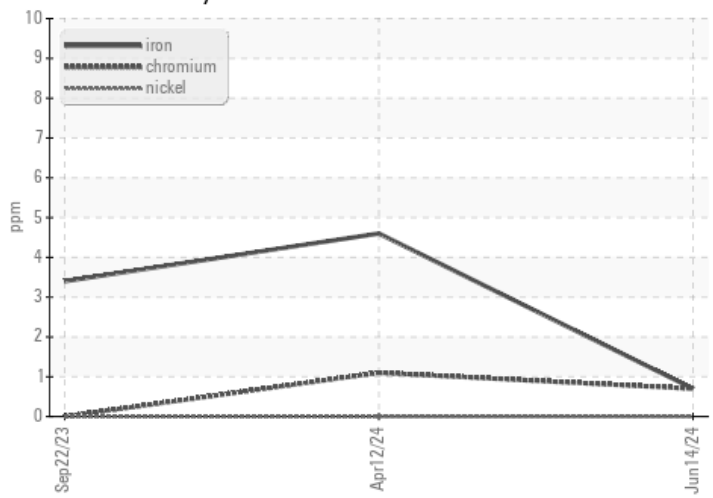
Diagnosis

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 high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

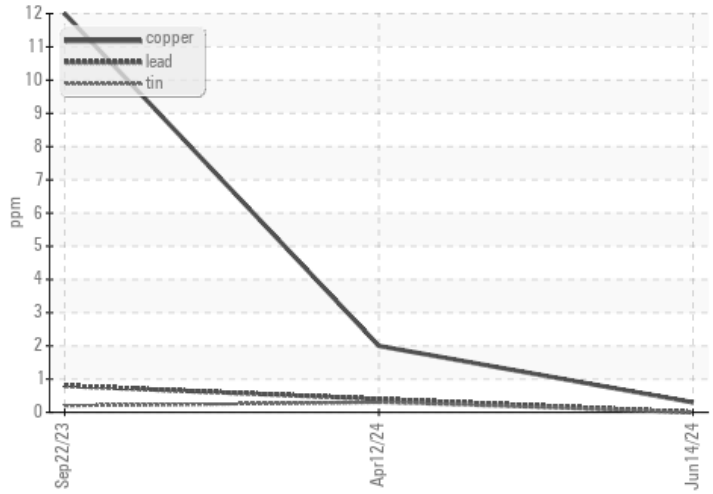
Depot: FORFORTFL
Unique No: 11100475
Signed: Jonathan Hester
Report Date: 01 Jul 2024

GRAPHS

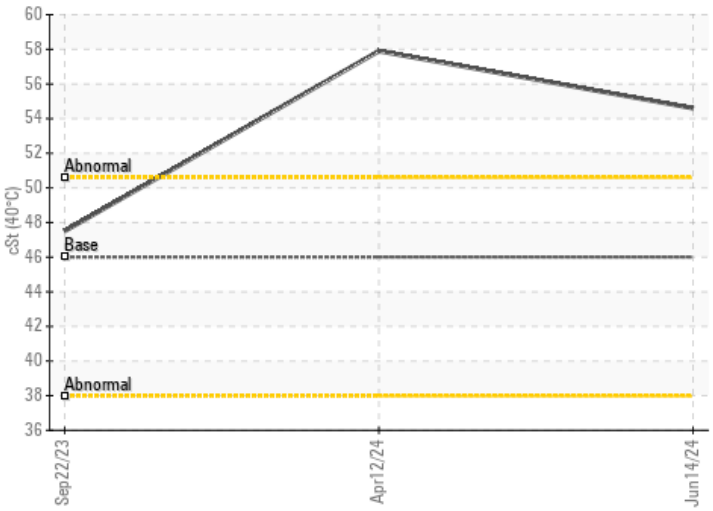
Ferrous Alloys



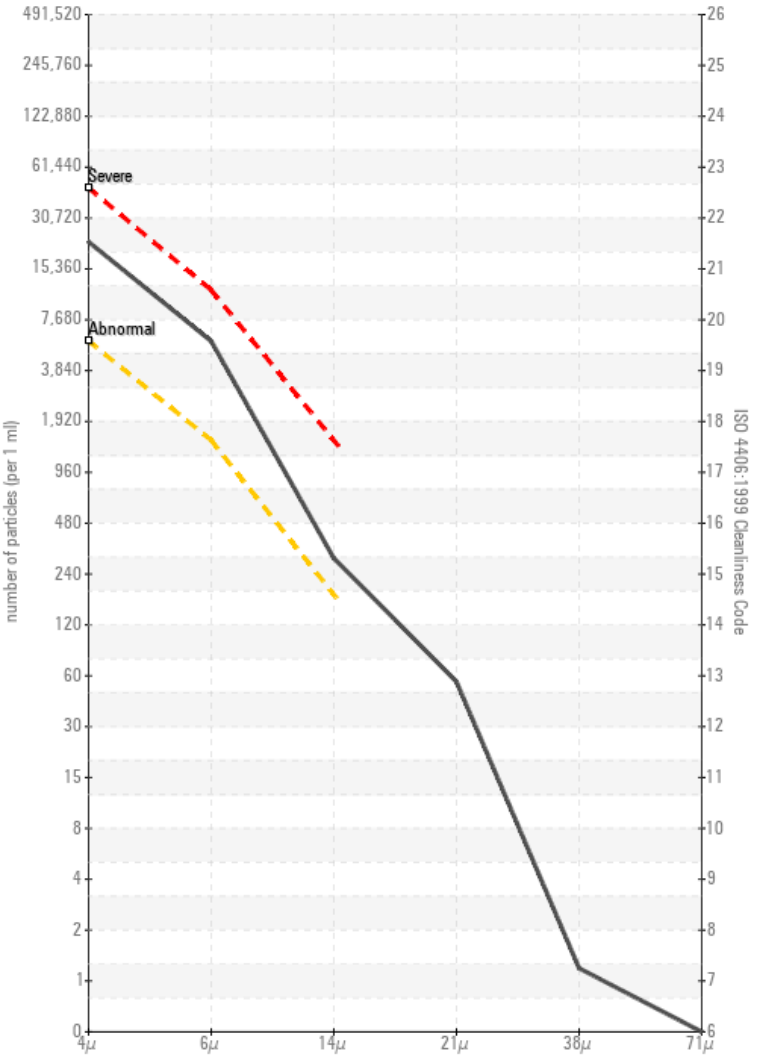
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number