CONSTRUCTION EQUIPMENT

634566 VOLVO SD115B 236662 - HYDRAULIC SYSTEM

Sample No: VCP440794
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 634566

SAMPLE INFORMATION

Sample Number		**VCP440794**	VCP412102	VCP306451	---
Sample Date		**28 Nov 2023**	15 Jun 2023	04 Feb 2021	---
Machine Hours		**4274**	3782	1597	---
Oil Hours		**2000**	0	1597	---
Oil Changed		**Changed**	Not Changd	Not Changd	---
Sample Status		**ABNORMAL**	ABNORMAL	ABNORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**60.8**	58.2	43.4	---
Acid Number (AN)	mg KOH/g	**0.41**	0.32	0.161	---

CONTAMINATION

Water	%	**NEG**	NEG	NEG	---
Particles >4µm		**7782**	17552	37632	---
Particles >6µm		**168**	1030	9312	---
Particles >14µm		**11**	185	271	---
ISO 4406:1999 (c)		**20/15/11**	21/17/15	22/20/15	---
Silicon	ppm	**2**	2	3	---
Sodium	ppm	**2**	<1	<1	---
Potassium	ppm	**2**	<1	3	---

WEAR METALS

Iron	ppm	**57**	54	55	---
Copper	ppm	**22**	19	2	---
Lead	ppm	**17**	11	6	---
Tin	ppm	**0**	<1	0	---
Aluminum	ppm	**1**	1	0	---
Chromium	ppm	**<1**	<1	<1	---
Molybdenum	ppm	**2**	3	<1	---
Nickel	ppm	**0**	0	0	---
Titanium	ppm	**0**	0	0	---
Silver	ppm	**0**	0	0	---
Manganese	ppm	**<1**	<1	1	---
Vanadium	ppm	**0**	<1	0	---

ADDITIVES

Calcium	ppm	**109**	119	109	---
Magnesium	ppm	**14**	16	<1	---
Zinc	ppm	**373**	376	72	---
Phosphorus	ppm	**389**	389	443	---
Barium	ppm	**0**	0	0	---
Boron	ppm	**3**	4	<1	---

RIPA AND ASSOCIATES
10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: PM Services
PMServices@ripaconstruction.com
T:
F:

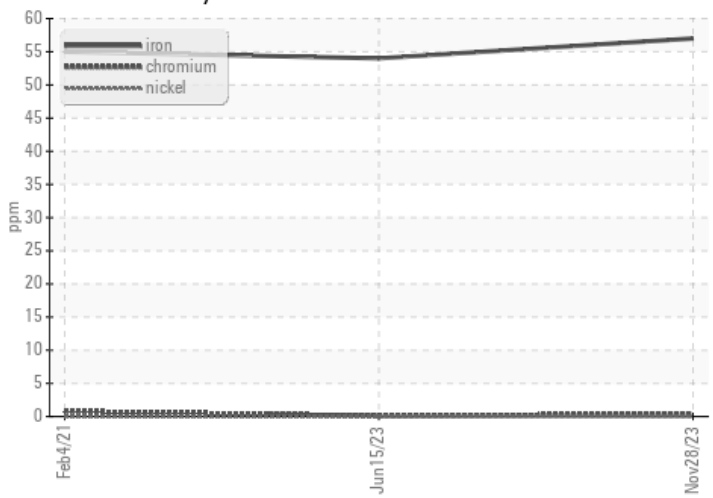
Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.The iron level is abnormal. The lead level is abnormal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

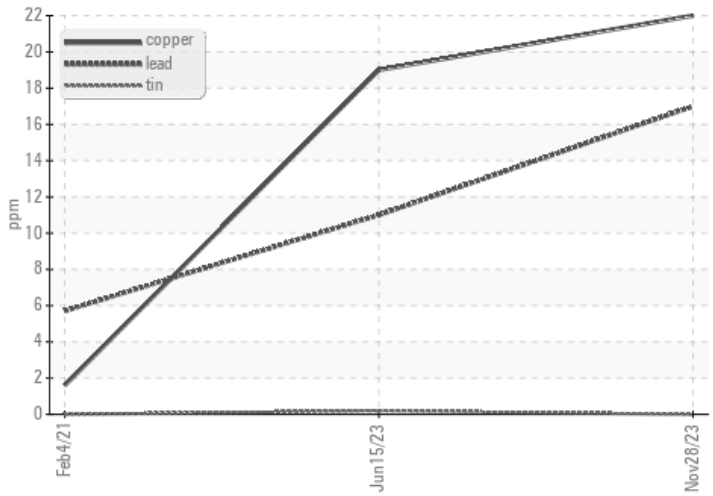
Depot: RIPTAM
Unique No: 10833982
Signed: Jonathan Hester
Report Date: 19 Jan 2024

GRAPHS

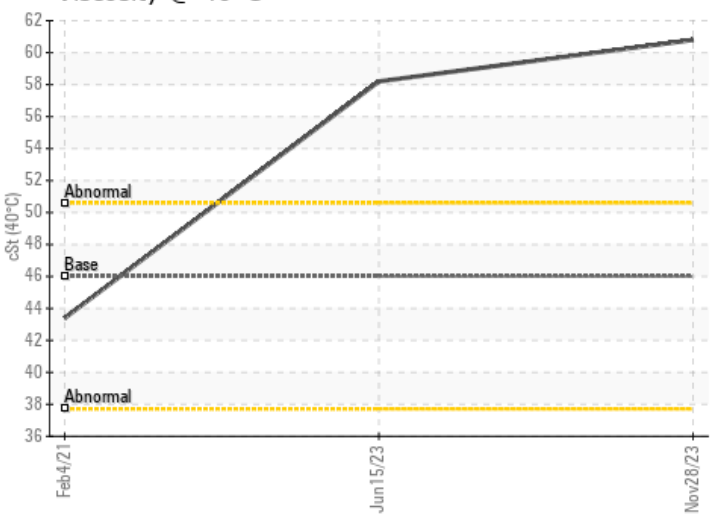
Ferrous Alloys



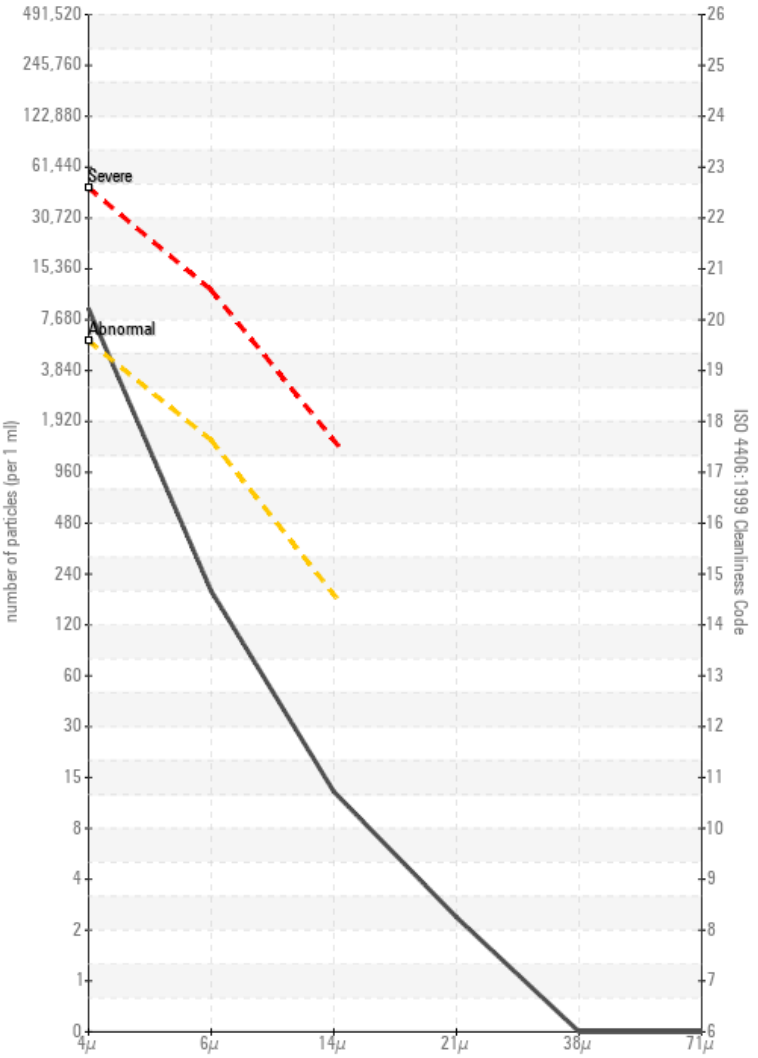
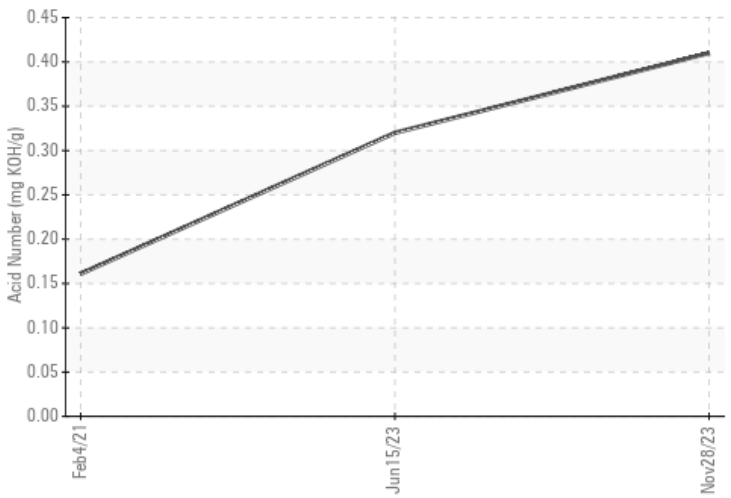
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number