



CONSTRUCTION EQUIPMENT

SUPERIOR VOLVO A25G 740348 - HYDRAULIC SYSTEM



Sample No: VCP440059
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SUPERIOR



SAMPLE INFORMATION

Sample Number	VCP440059	VCP0007704	VCP237684	---
Sample Date	08 Feb 2024	05 May 2023	04 Feb 2019	---
Machine Hours	11358	0	0	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	Changed	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	52.9	56.9	45.02	---
Acid Number (AN)	mg KOH/g	0.39	0.36	1.238	---



CONTAMINATION

Water	%	NEG	NEG	▲ 0.282	---
Particles >4µm		15264	2095	195569	---
Particles >6µm		▲ 5355	566	▲ 30609	---
Particles >14µm		▲ 548	27	▲ 1358	---
ISO 4406:1999 (c)		21/20/16	18/16/12	25/22/18	---
Silicon	ppm	6	6	17	---
Sodium	ppm	4	<1	9	---
Potassium	ppm	<1	0	5	---

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. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	6	5	26	---
Copper	ppm	3	2	▲ 251	---
Lead	ppm	2	0	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	2	5	2	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	<1	2	<1	---
Nickel	ppm	0	0	2	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	57	67	3207	---
Magnesium	ppm	2	8	8	---
Zinc	ppm	335	375	1286	---
Phosphorus	ppm	267	299	1094	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	1	125	---

Depot: VOLVO0093
Unique No: 10900652
Signed: Don Baldrige
Report Date: 29 Feb 2024

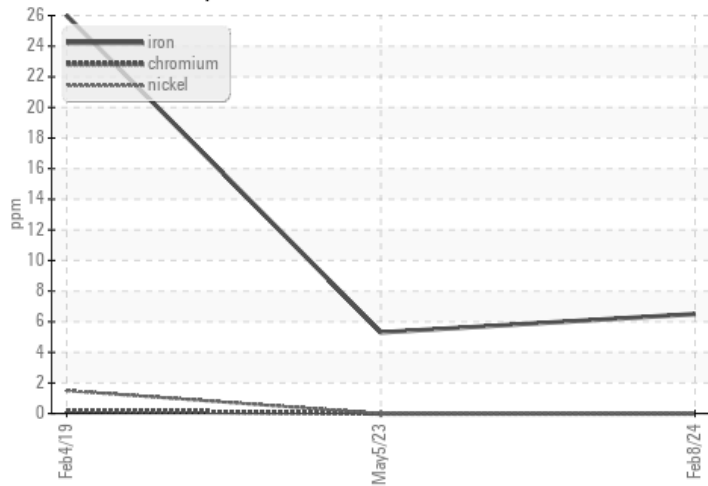


CONSTRUCTION EQUIPMENT

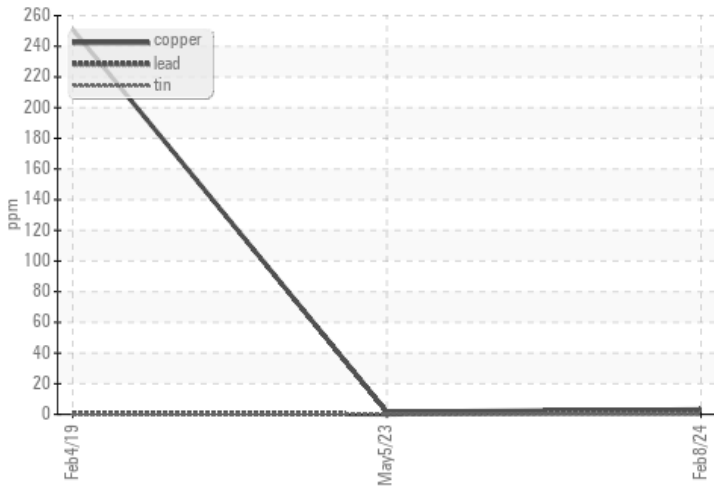


GRAPHS

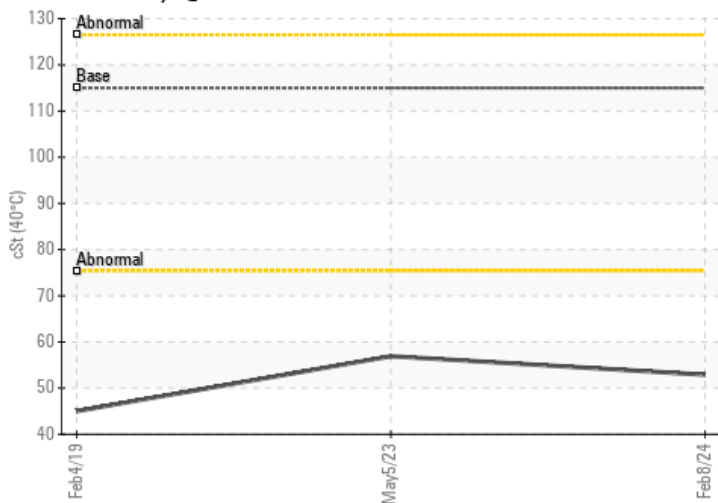
Ferrous Alloys



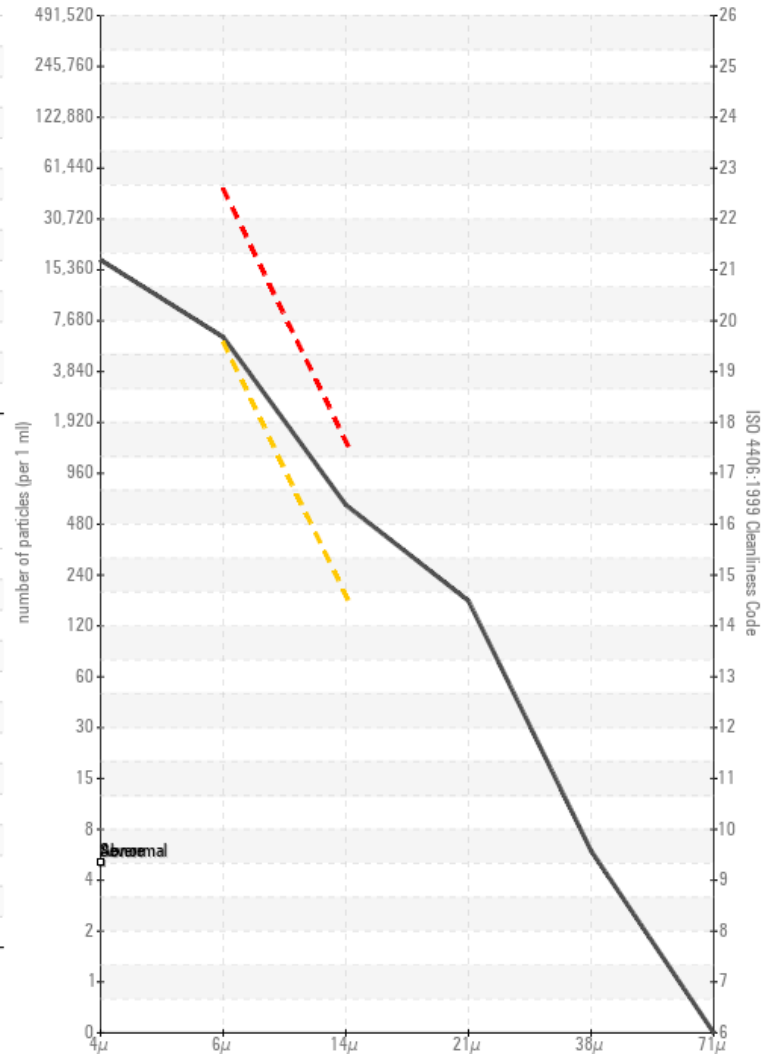
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

