



CONSTRUCTION EQUIPMENT

661922 APTIM VOLVO A35G 340227 - HYDRAULIC SYSTEM



Sample No: VCP449059
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 661922 APTIM



SAMPLE INFORMATION

Sample Number	VCP449059	VCP417070	VCP395752	---
Sample Date	31 Jan 2024	27 Jul 2023	01 Feb 2023	---
Machine Hours	8398	7611	6647	---
Oil Hours	500	4000	2000	---
Oil Changed	Not Changd	Changed	Not Changd	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	41.5	44.4	39.6	---
Acid Number (AN)	mg KOH/g	0.58	1.00	0.49	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		1884	16127	2439	---
Particles >6µm		325	1130	372	---
Particles >14µm		19	28	12	---
ISO 4406:1999 (c)		18/16/11	21/17/12	18/16/11	---
Silicon	ppm	3	9	4	---
Sodium	ppm	2	<1	2	---
Potassium	ppm	2	2	<1	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	9	27	18	---
Copper	ppm	6	263	12	---
Lead	ppm	2	2	5	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	1	1	1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	3	<1	---
Nickel	ppm	<1	3	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	228	3055	300	---
Magnesium	ppm	7	32	6	---
Zinc	ppm	476	1378	473	---
Phosphorus	ppm	358	1101	371	---
Barium	ppm	0	0	0	---
Boron	ppm	1	76	0	---

Depot: VOLVO0093
Unique No: 10901133
Signed: Wes Davis
Report Date: 29 Feb 2024

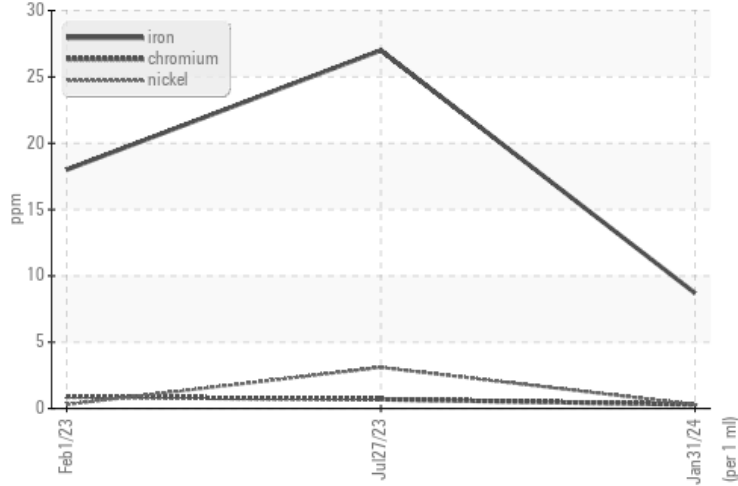


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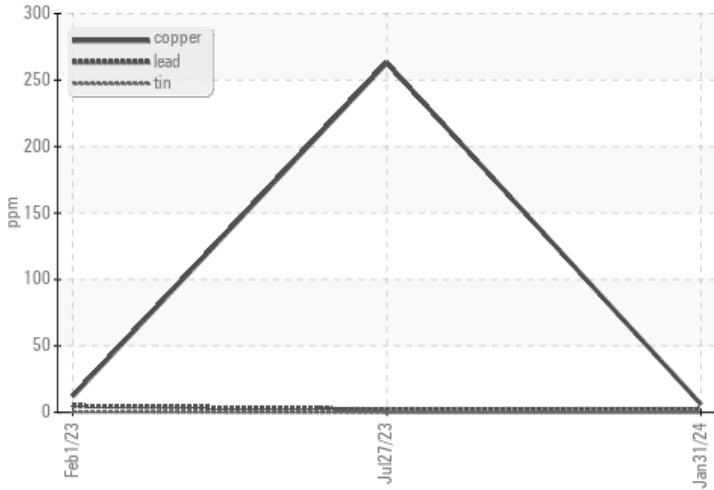


GRAPHS

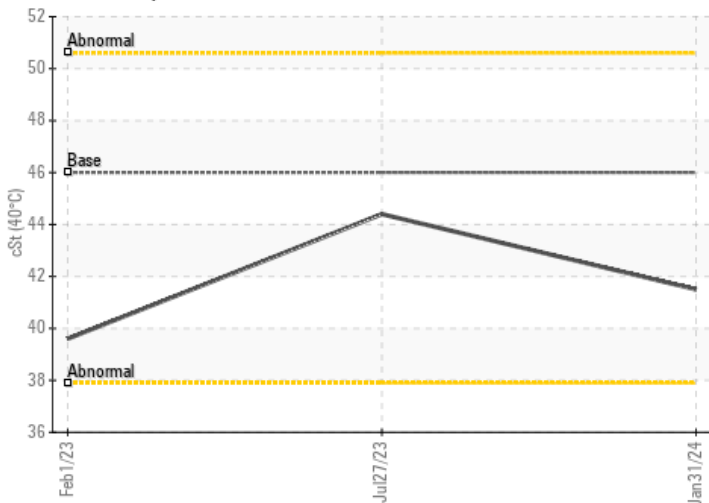
Ferrous Alloys



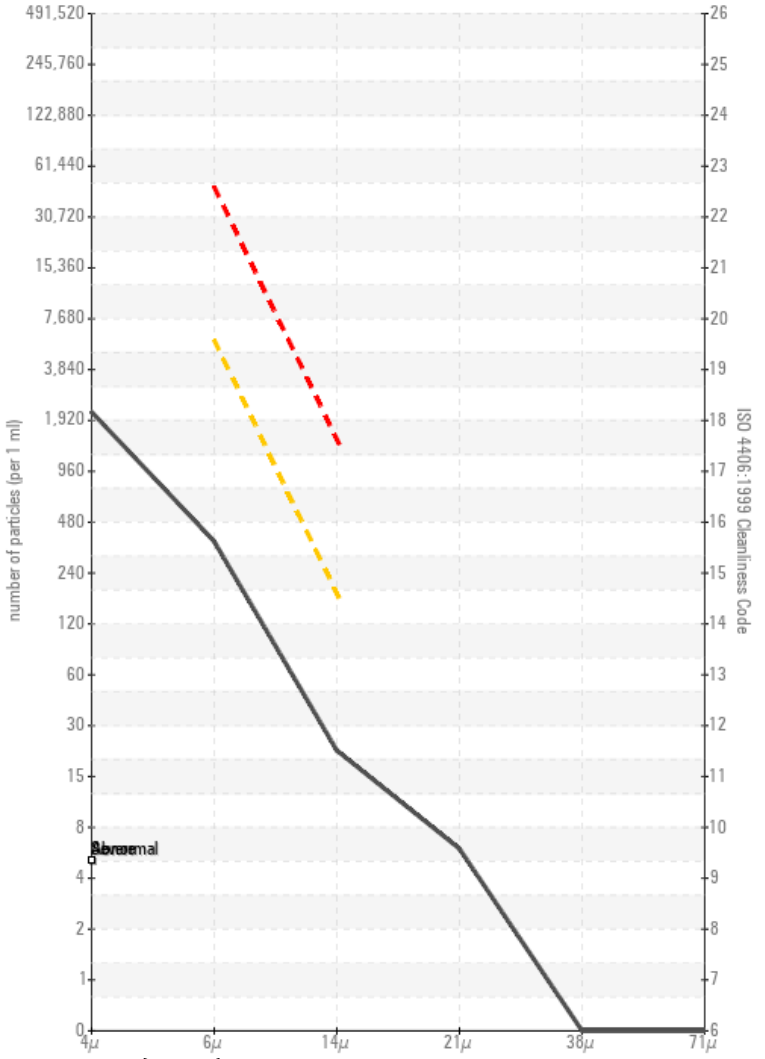
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

