



CONSTRUCTION EQUIPMENT

19548 MARTIN MARIETT VOLVO A45G 353451 - HYDRAULIC SYSTEM



Sample No: VCP434510
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 19548 MARTIN MARIETT



SAMPLE INFORMATION

Sample Number	VCP434510	VCP410920	---	---
Sample Date	07 Sep 2023	31 May 2023	---	---
Machine Hours	969	500	---	---
Oil Hours	969	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	42.9	42.9	---	---
Acid Number (AN)	mg KOH/g	0.41	0.44	---	---



CONTAMINATION

Particles >4µm		2237	1977	---	---
Particles >6µm		374	260	---	---
Particles >14µm		38	15	---	---
ISO 4406:1999 (c)		18/16/12	18/15/11	---	---
Silicon	ppm	6	5	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	0	0	---	---

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



ADDITIVES

Calcium	ppm	63	60	---	---
Magnesium	ppm	0	<1	---	---
Zinc	ppm	439	437	---	---
Phosphorus	ppm	346	317	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO8769
Unique No: 10647281
Signed: Wes Davis
Report Date: 16 Sep 2023

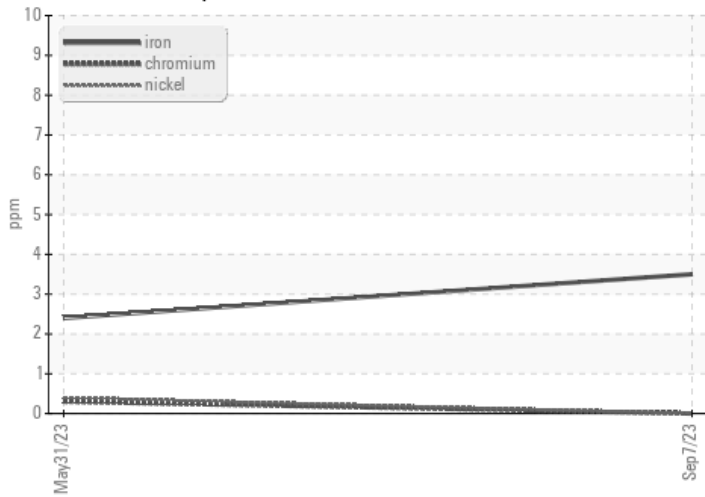


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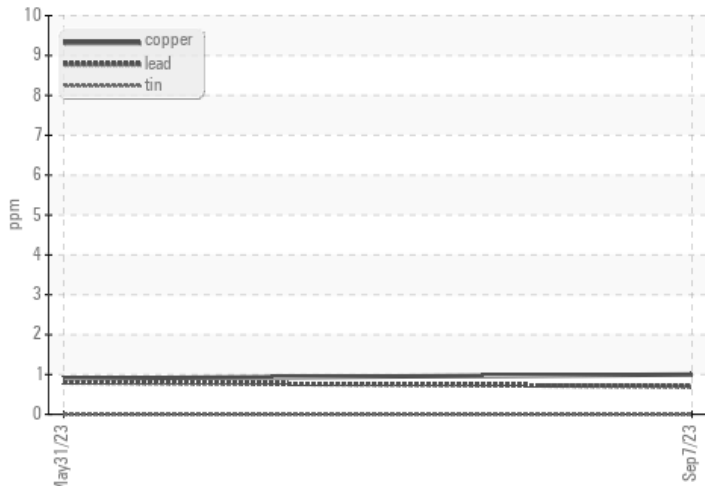


GRAPHS

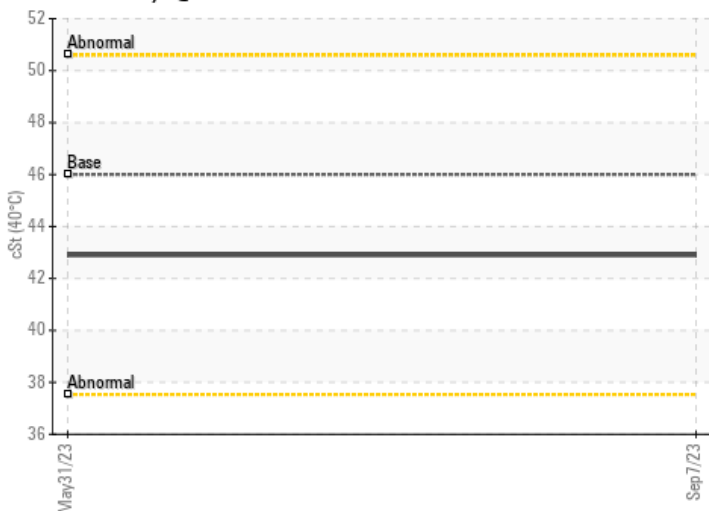
Ferrous Alloys



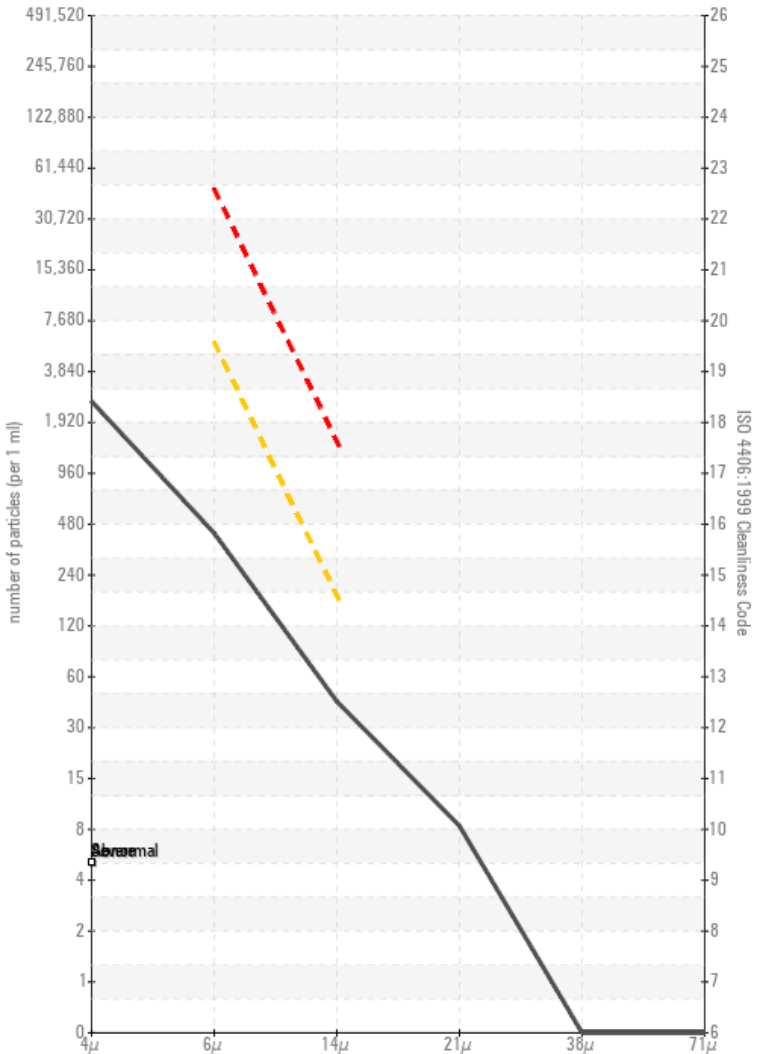
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

