



CONSTRUCTION EQUIPMENT

18965 VOLVO A45G 353358 - HYDRAULIC SYSTEM



Sample No: VCP410419
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 18965



SAMPLE INFORMATION

Sample Number	VCP410419	VCP395629	---	---
Sample Date	29 Jun 2023	21 Feb 2023	---	---
Machine Hours	984	506	---	---
Oil Hours	984	506	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	ATTENTION	---	---

GAINES & CO

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 T: (919)524-4711
 F: (919)944-0091



OIL CONDITION

Visc @ 40°C	cSt	43.3	43.2	---	---
Acid Number (AN)	mg KOH/g	0.37	0.39	---	---



CONTAMINATION

Particles >4µm		3439	8648	---	---
Particles >6µm		429	2812	---	---
Particles >14µm		25	264	---	---
ISO 4406:1999 (c)		19/16/12	20/19/15	---	---
Silicon	ppm	5	4	---	---
Sodium	ppm	0	<1	---	---
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	<1	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	64	59	---	---
Magnesium	ppm	0	0	---	---
Zinc	ppm	423	399	---	---
Phosphorus	ppm	337	302	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: GAIKNI
Unique No: 10552610
Signed: Wes Davis
Report Date: 13 Jul 2023

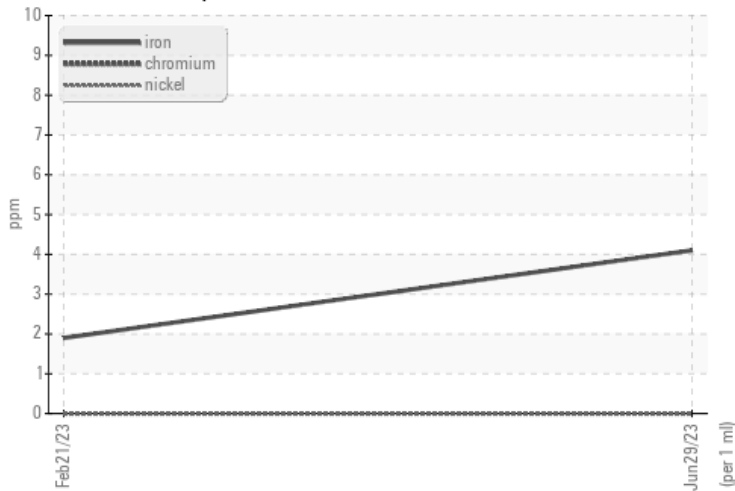


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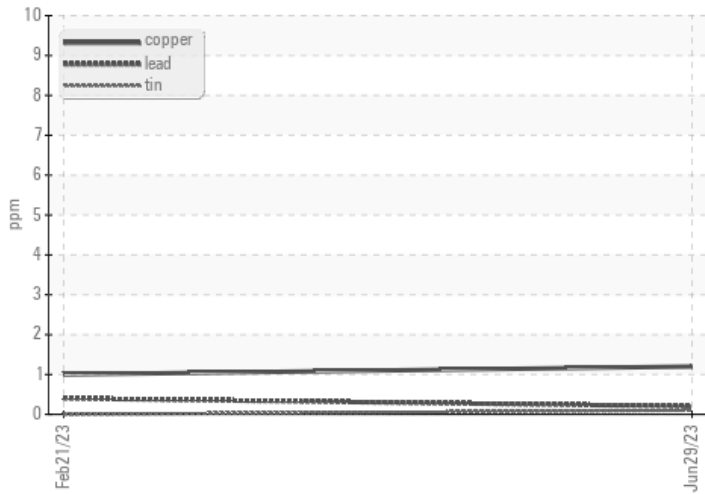


GRAPHS

Ferrous Alloys



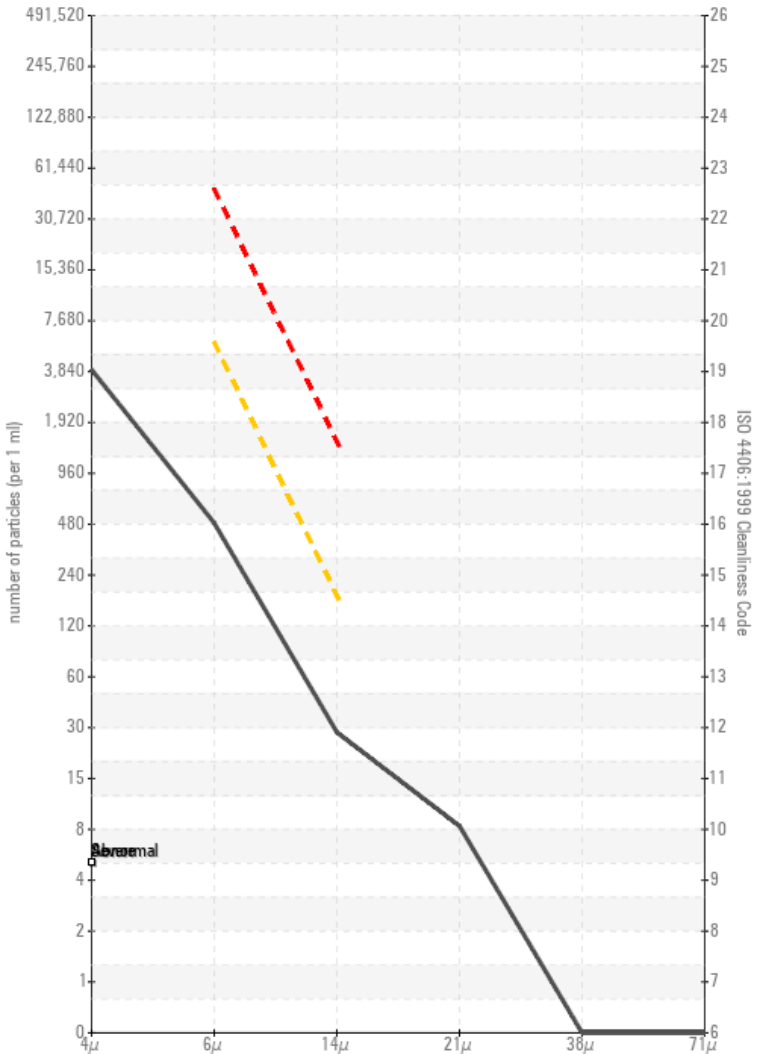
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

