



CONSTRUCTION EQUIPMENT

VOLVO EC160 314161 - HYDRAULIC SYSTEM



Sample No: VCP441425
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP441425	VCP417522	---	---
Sample Date	09 Jan 2024	12 Jun 2023	---	---
Machine Hours	994	716	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
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 T:
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OIL CONDITION

Visc @ 40°C	cSt	42.9	43.1	---	---
Acid Number (AN)	mg KOH/g	0.51	0.53	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		45231	---	---	---
Particles >6µm		9106	---	---	---
Particles >14µm		412	---	---	---
ISO 4406:1999 (c)		23/20/16	---	---	---
Silicon	ppm	4	5	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	0	<1	---	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 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.



WEAR METALS

Iron	ppm	<1	2	---	---
Copper	ppm	43	40	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	0	0	---	---
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	50	60	---	---
Magnesium	ppm	0	<1	---	---
Zinc	ppm	478	474	---	---
Phosphorus	ppm	391	368	---	---
Barium	ppm	0	2	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO0090
Unique No: 10830631
Signed: Wes Davis
Report Date: 15 Jan 2024

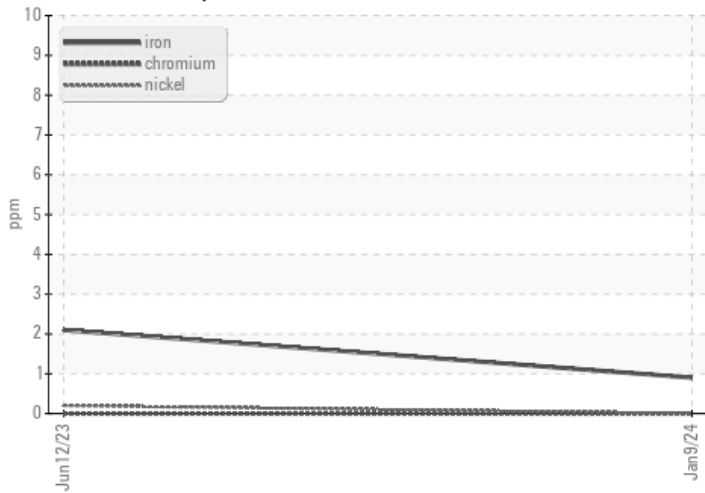


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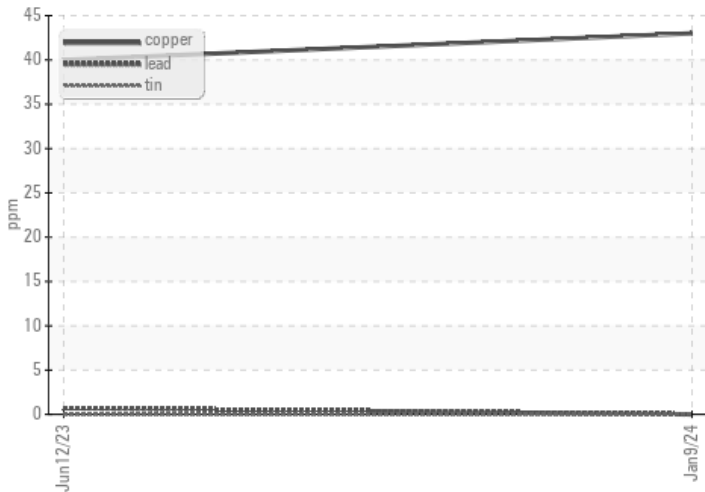


GRAPHS

Ferrous Alloys



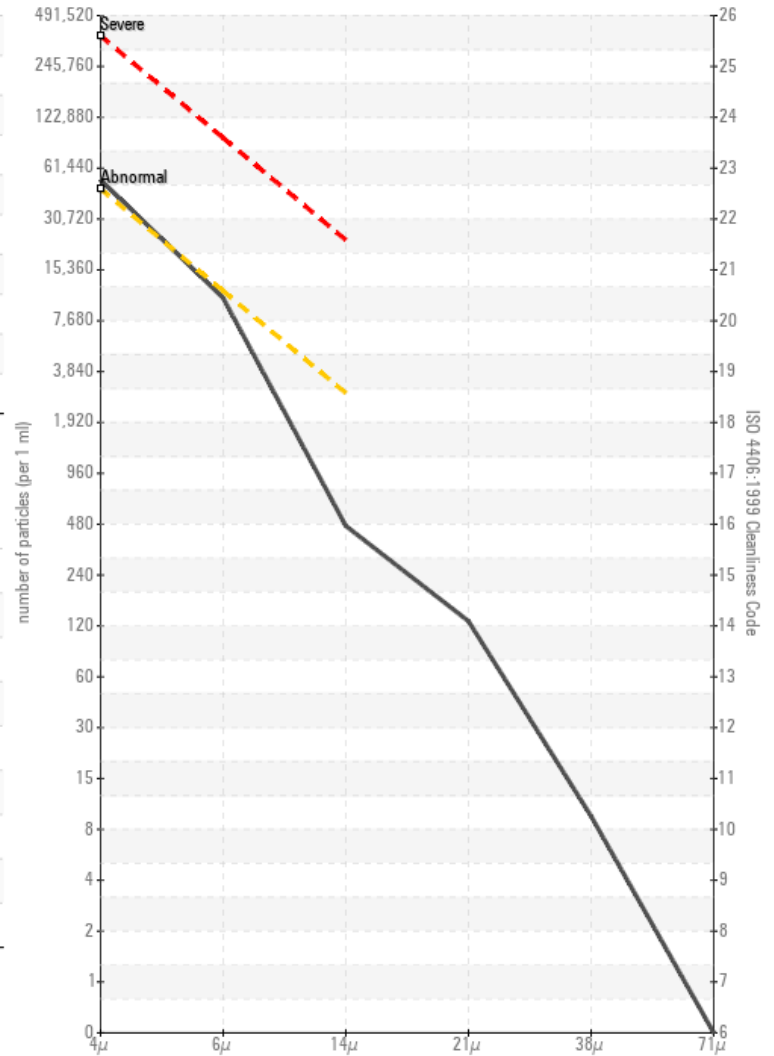
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

