



CONSTRUCTION EQUIPMENT

10075 ENVIROVANTAGE VOLVO EC380E 314814 - HYDRAULIC SYSTEM



Sample No: VCP409393
Oil Type: CHEVRON HYDRAULIC OIL AW ISO 46
Job No: 10075 ENVIROVANTAGE



SAMPLE INFORMATION

Sample Number	VCP409393	VCP347550	---	---
Sample Date	13 Dec 2023	10 Mar 2022	---	---
Machine Hours	2128	607	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	42.9	42.3	---	---
Acid Number (AN)	mg KOH/g	0.39	0.51	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		19284	6712	---	---
Particles >6µm		578	937	---	---
Particles >14µm		16	56	---	---
ISO 4406:1999 (c)		21/16/11	20/17/13	---	---
Silicon	ppm	2	1	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	0	0	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	6	2	---	---
Copper	ppm	13	9	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	26	49	---	---
Magnesium	ppm	0	0	---	---
Zinc	ppm	284	469	---	---
Phosphorus	ppm	266	396	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLV00150
Unique No: 10794453
Signed: Don Baldrige
Report Date: 21 Dec 2023

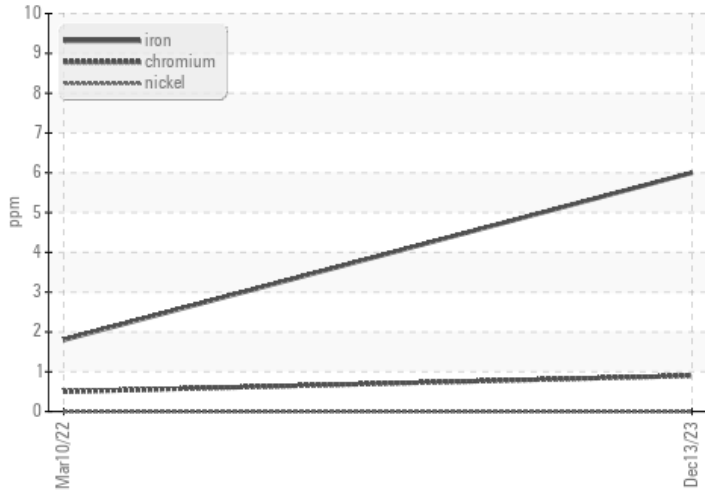


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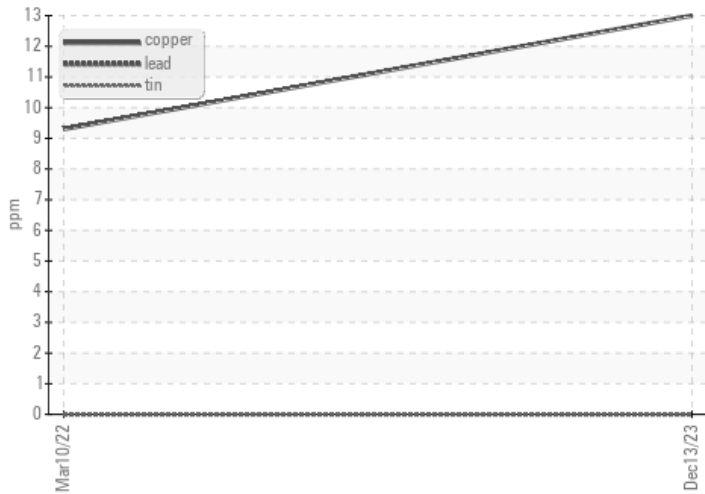


GRAPHS

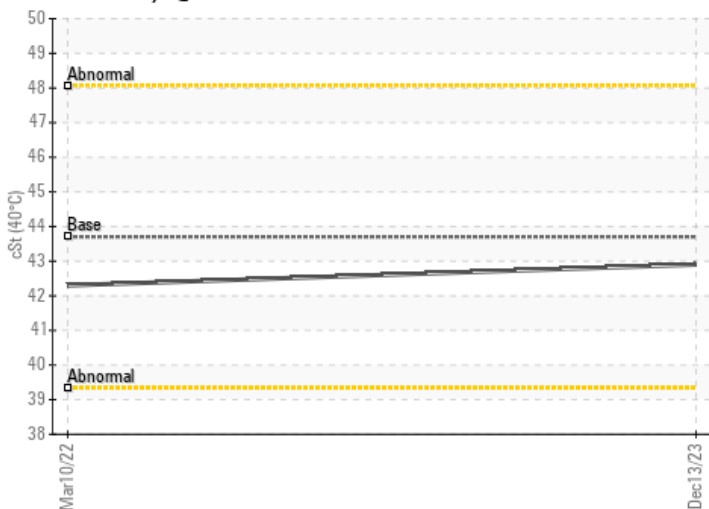
Ferrous Alloys



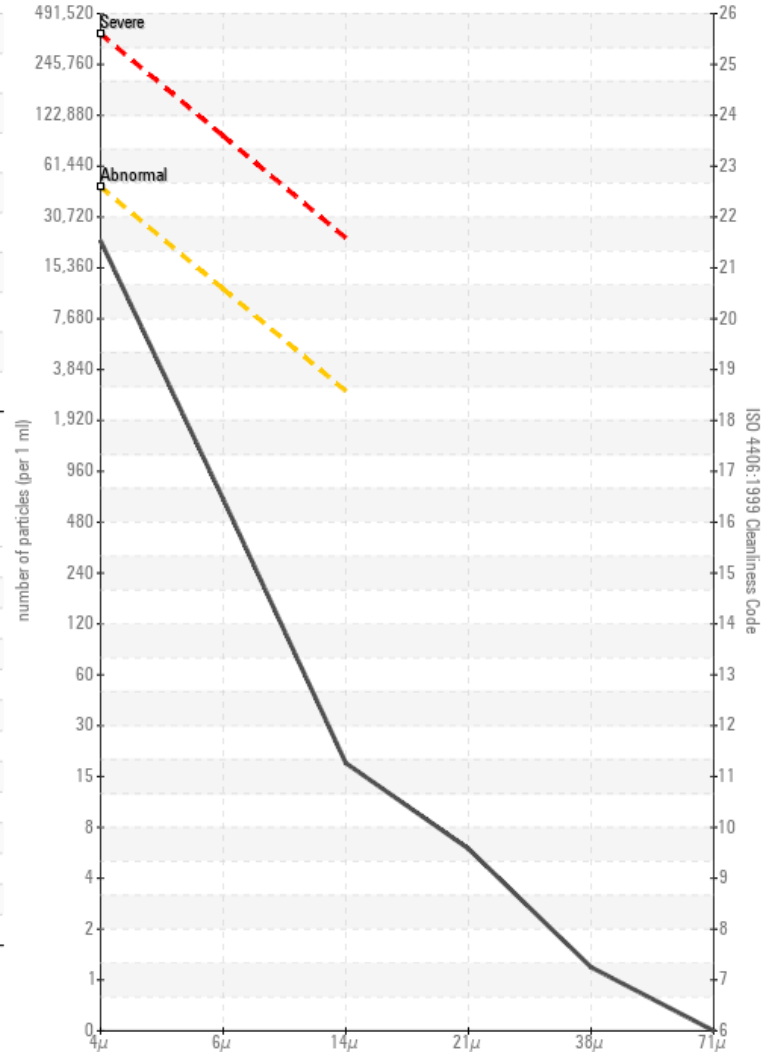
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

