



CONSTRUCTION EQUIPMENT

VOLVO L180H 5785 - HYDRAULIC SYSTEM



Sample No: VCP437925
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP437925	VCP425143	---	---
Sample Date	19 Mar 2024	16 Oct 2023	---	---
Machine Hours	4218	1214	---	---
Oil Hours	0	1214	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	41.9	42.4	---	---
Acid Number (AN)	mg KOH/g	0.39	0.23	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		1717	4789	---	---
Particles >6µm		270	1234	---	---
Particles >14µm		26	108	---	---
ISO 4406:1999 (c)		18/15/12	19/17/14	---	---
Silicon	ppm	2	1	---	---
Sodium	ppm	2	0	---	---
Potassium	ppm	<1	2	---	---

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	3	1	---	---
Copper	ppm	2	2	---	---
Lead	ppm	3	2	---	---
Tin	ppm	3	0	---	---
Aluminum	ppm	<1	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	<1	<1	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	49	53	---	---
Magnesium	ppm	0	<1	---	---
Zinc	ppm	390	446	---	---
Phosphorus	ppm	294	347	---	---
Barium	ppm	0	9	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO0093
Unique No: 10940527
Signed: Wes Davis
Report Date: 25 Mar 2024

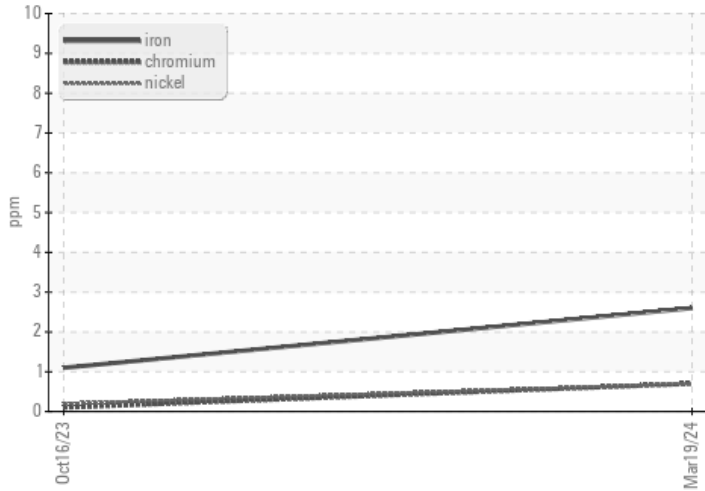


CONSTRUCTION EQUIPMENT

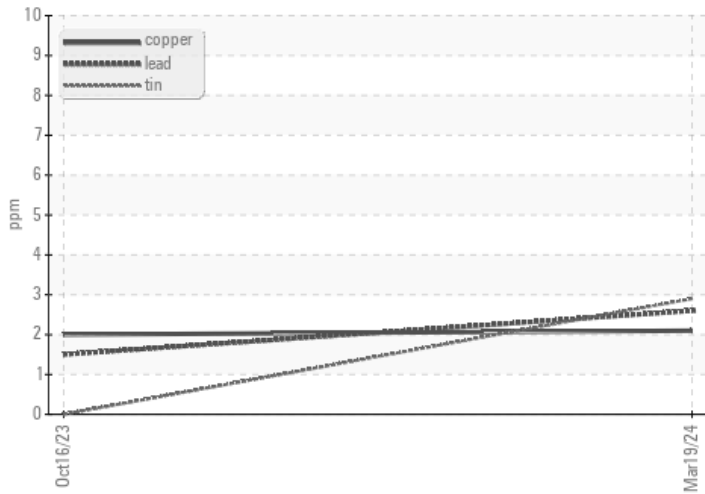


GRAPHS

Ferrous Alloys



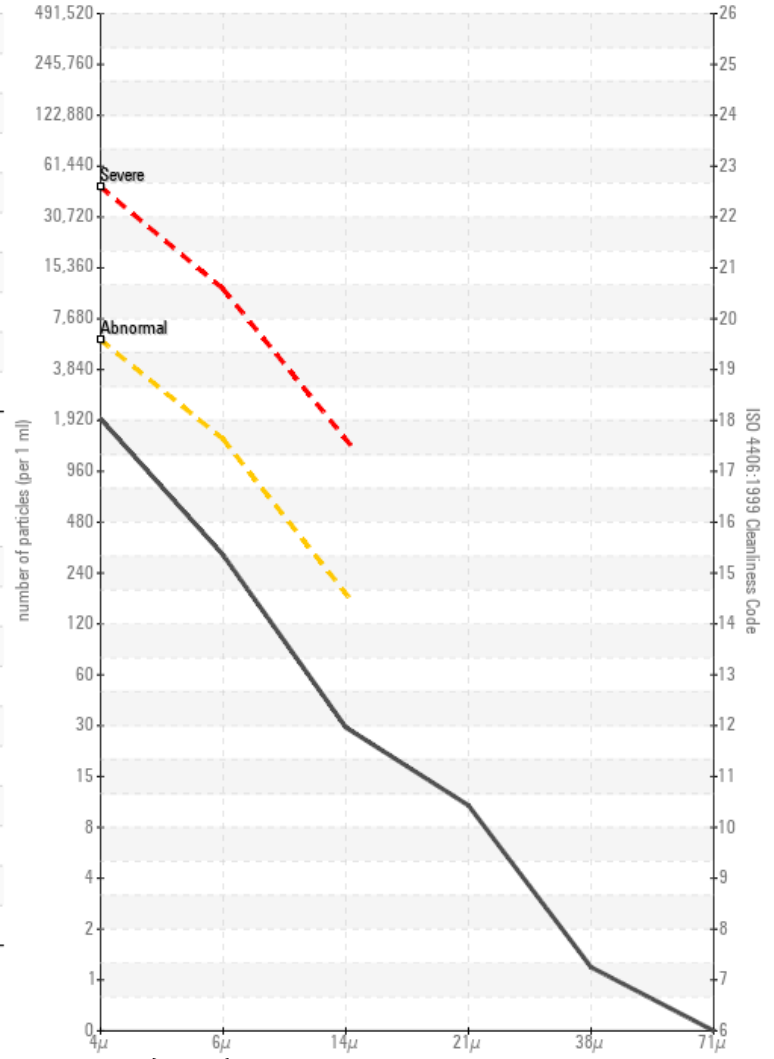
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

