



CONSTRUCTION EQUIPMENT

SWO-069745 APAC AL VOLVO L150H 6816 - HYDRAULIC SYSTEM



Sample No: VCP444454
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-069745 APAC AL



SAMPLE INFORMATION

Sample Number	VCP444454	VCP289490	VCP271673	---
Sample Date	15 Feb 2024	06 Oct 2020	28 May 2020	---
Machine Hours	7536	2531	2006	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	---

COWIN EQUIPMENT COMPANY

2238 PINSON VALLEY PARKWAY
 BIRMINGHAM, AL
 US 35217
 Contact: BRANTLY CLAY
 bclay@cowin.com
 T:
 F: (205)856-2106



OIL CONDITION

Visc @ 40°C	cSt	42.9	39.2	39.4	---
Acid Number (AN)	mg KOH/g	0.34	0.225	0.350	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		7690	23179	6003	---
Particles >6µm		2163	9956	1380	---
Particles >14µm		166	1795	114	---
ISO 4406:1999 (c)		20/18/15	22/20/18	20/18/14	---
Silicon	ppm	3	2	2	---
Sodium	ppm	2	0	<1	---
Potassium	ppm	0	<1	<1	---

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	5	4	3	---
Copper	ppm	2	5	5	---
Lead	ppm	<1	3	2	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	2	<1	<1	---
Molybdenum	ppm	<1	<1	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	100	47	42	---
Magnesium	ppm	5	2	<1	---
Zinc	ppm	438	434	421	---
Phosphorus	ppm	355	320	313	---
Barium	ppm	0	0	0	---
Boron	ppm	4	<1	<1	---

Depot: VOLVO8528
Unique No: 10886965
Signed: Wes Davis
Report Date: 21 Feb 2024

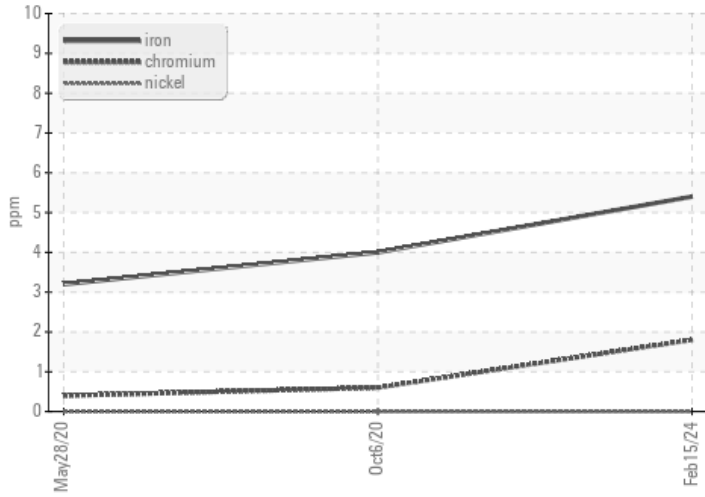


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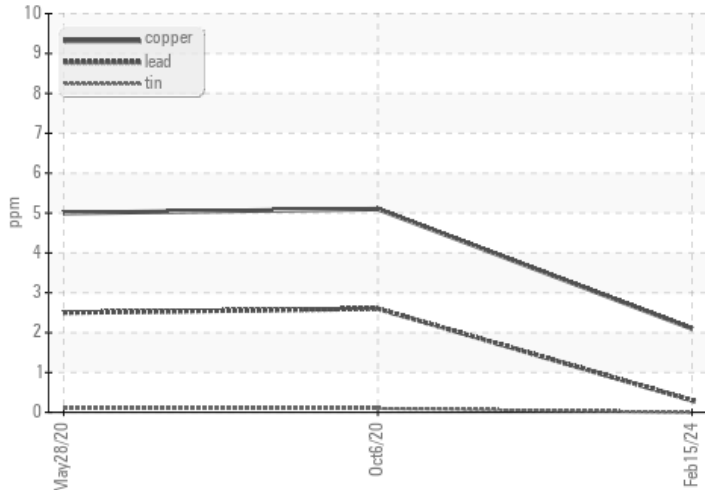


GRAPHS

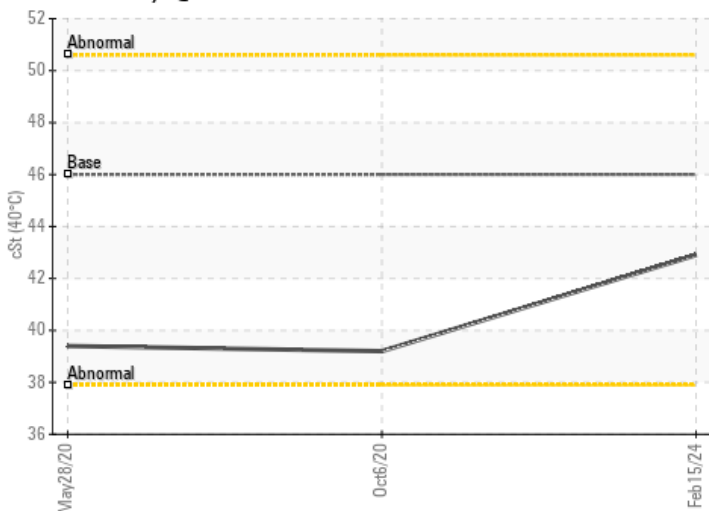
Ferrous Alloys



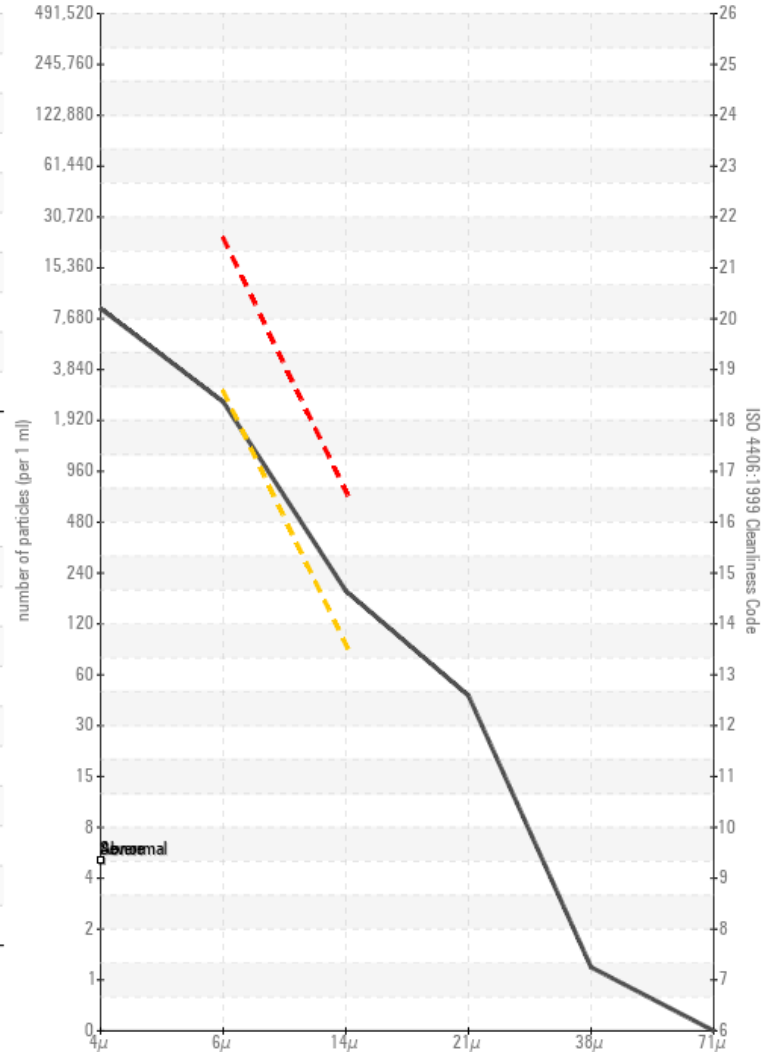
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

