



CONSTRUCTION EQUIPMENT

SWA142888 VOLVO L110H 10425 - HYDRAULIC SYSTEM



Sample No: VCP370086
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA142888



SAMPLE INFORMATION

Sample Number	VCP370086	VCP326425	VCP305270	VCP292065
Sample Date	06 Jan 2023	08 Oct 2021	11 Mar 2021	30 Oct 2020
Machine Hours	9253	8440	7265	6382
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471

OIL CONDITION

Visc @ 40°C	cSt	39.9	39.3	39.2	39.0
Acid Number (AN)	mg KOH/g	0.42	0.363	0.382	0.372

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		14942	6768	1807	21887
Particles >6µm		▲ 4108	1072	406	▲ 5218
Particles >14µm		▲ 311	48	25	▲ 322
ISO 4406:1999 (c)		21/19/15	20/17/13	18/16/12	22/20/16
Silicon	ppm	1	1	2	2
Sodium	ppm	1	2	2	2
Potassium	ppm	0	0	0	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates 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	4	3	3	3
Copper	ppm	<1	1	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	2	2	2	1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	61	59	65	62
Magnesium	ppm	2	2	3	5
Zinc	ppm	440	404	429	408
Phosphorus	ppm	347	325	347	334
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	3

Depot: VOLV00142
Unique No: 10286609
Signed: Don Baldrige
Report Date: 13 Jan 2023

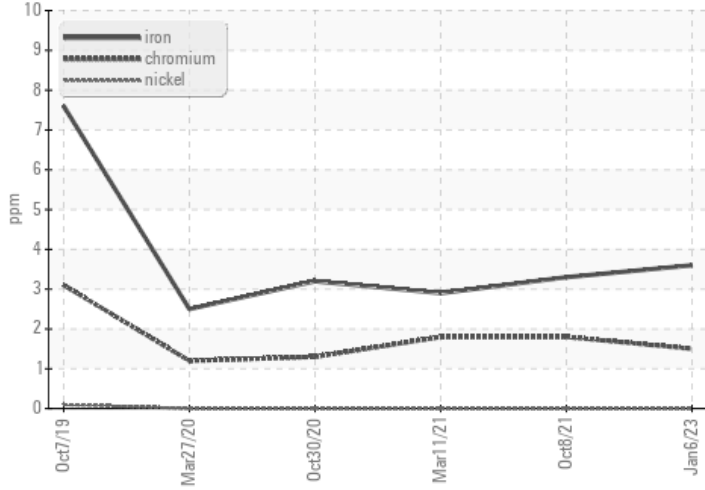


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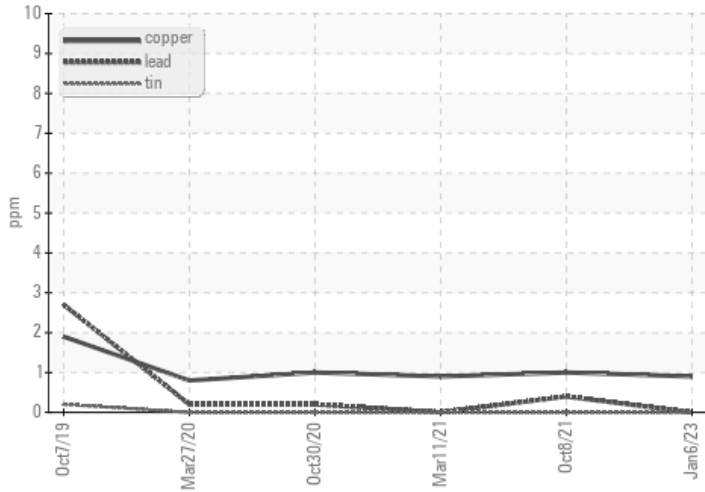


GRAPHS

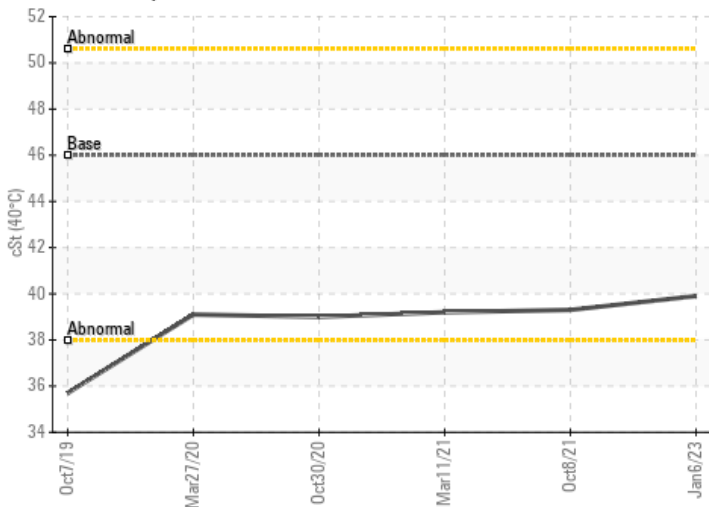
Ferrous Alloys



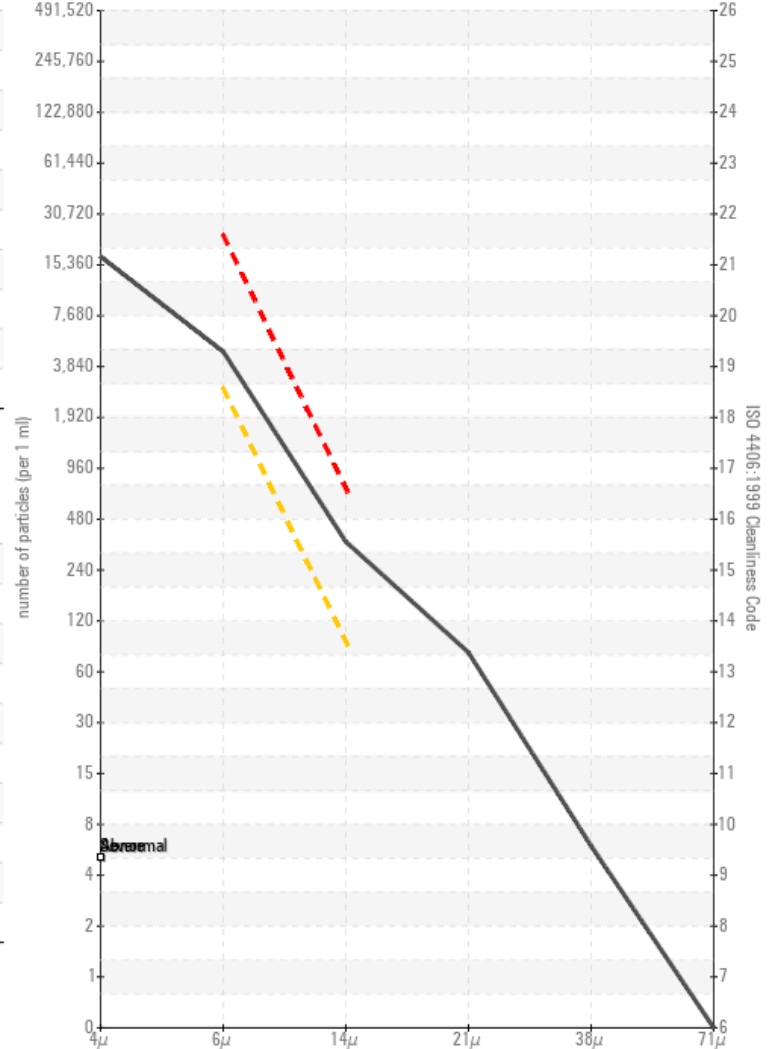
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

