



CONSTRUCTION EQUIPMENT

VOLVO L150H 4487 - HYDRAULIC SYSTEM



Sample No: VCP312562

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP312562	VCP401933	VCP385223	VCP378550
Sample Date	02 Oct 2023	15 Aug 2023	26 May 2023	11 Apr 2023
Machine Hours	17506	17210	16750	16479
Oil Hours	1865	1569	271	838
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



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OIL CONDITION

Visc @ 40°C	cSt	39.5	39.5	45.4	39.6
Acid Number (AN)	mg KOH/g	1.00	1.07	1.11	1.13



CONTAMINATION

Particles >4µm		52246	84679	99412	33934
Particles >6µm		14839	22180	36620	8497
Particles >14µm		373	370	1298	232
ISO 4406:1999 (c)		23/21/16	24/22/16	24/22/17	22/20/15
Silicon	ppm	12	13	18	12
Sodium	ppm	4	3	3	2
Potassium	ppm	0	0	0	0



WEAR METALS

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



ADDITIVES

Calcium	ppm	2824	2750	2755	2734
Magnesium	ppm	20	22	22	23
Zinc	ppm	965	959	957	944
Phosphorus	ppm	814	758	744	764
Barium	ppm	0	0	0	0
Boron	ppm	1	<1	<1	0

Diagnosis

No corrective action is recommended at this time. 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 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.

Depot: SCHGRE
Unique No: 10700835
Signed: Don Baldrige
Report Date: 20 Oct 2023

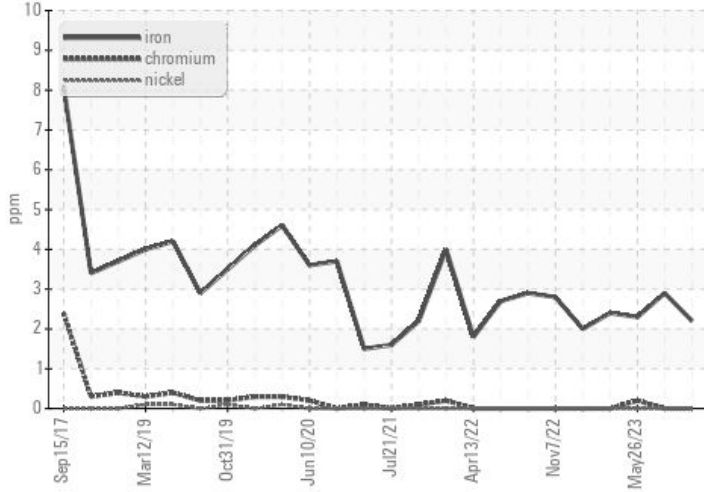


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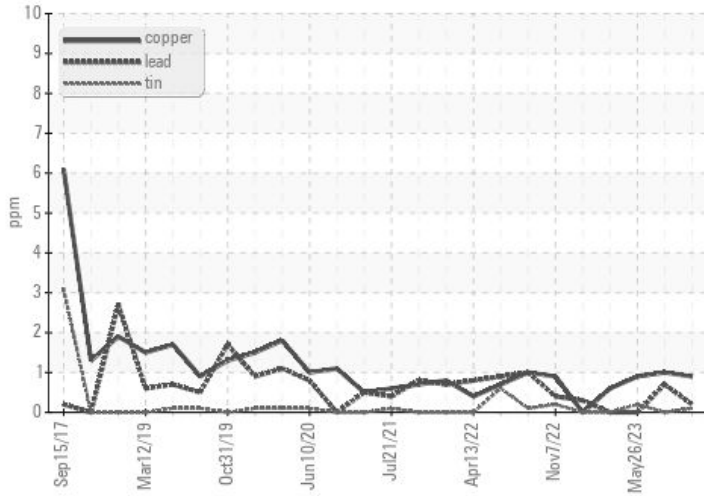


GRAPHS

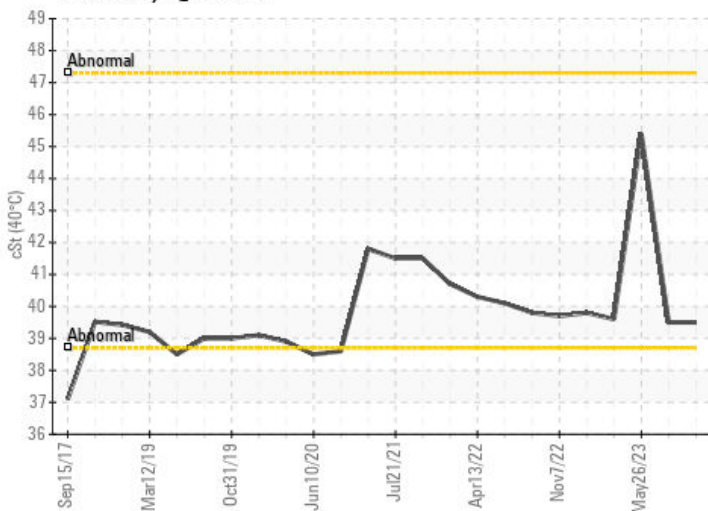
Ferrous Alloys



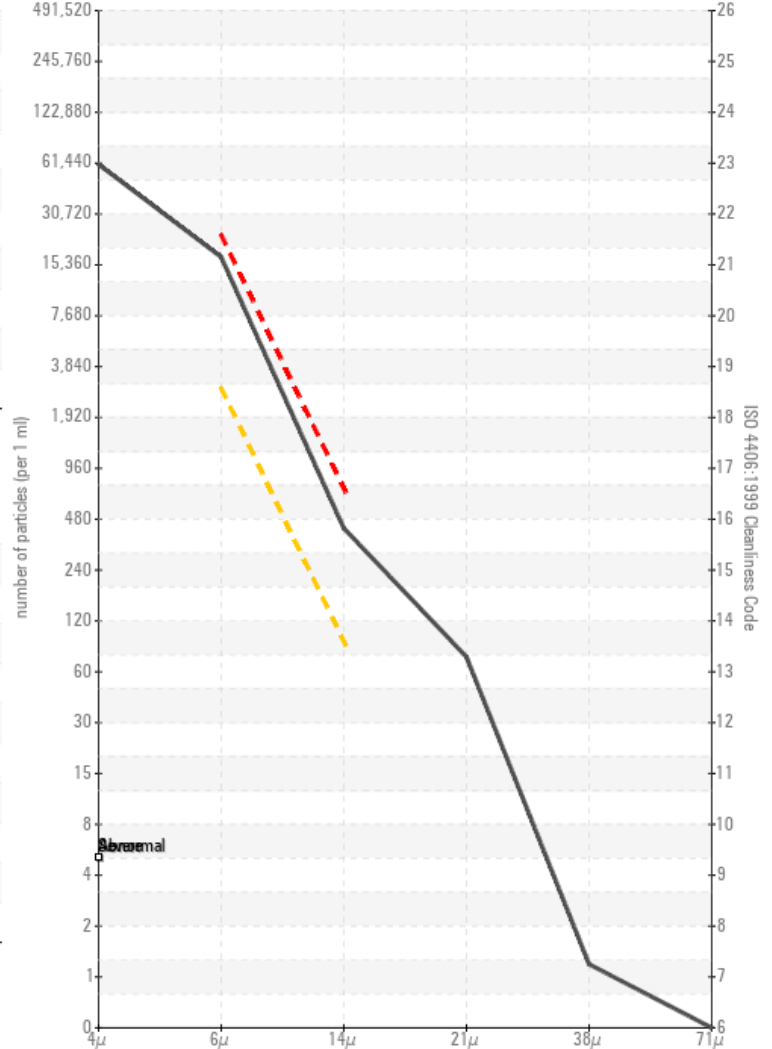
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

