



CONSTRUCTION EQUIPMENT

VOLVO L150F 14205 - HYDRAULIC SYSTEM



Sample No: VCP312537

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP312537	VCP385214	VCP359615	VCP318382
Sample Date	24 Oct 2023	09 Aug 2023	23 Aug 2022	11 Jan 2022
Machine Hours	25033	24538	23260	22797
Oil Hours	1574	1079	2084	1621
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



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OIL CONDITION

Visc @ 40°C	cSt	39.5	40.2	40.4	41.1
Acid Number (AN)	mg KOH/g	0.71	1.04	1.06	1.024



CONTAMINATION

Particles >4µm		128291	35224	135054	---
Particles >6µm		40513	6693	50987	---
Particles >14µm		739	153	2284	---
ISO 4406:1999 (c)		24/23/17	22/20/14	24/23/18	---
Silicon	ppm	17	11	11	8
Sodium	ppm	2	2	5	3
Potassium	ppm	<1	0	0	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.



WEAR METALS

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



ADDITIVES

Calcium	ppm	3158	2918	2496	2414
Magnesium	ppm	28	26	21	24
Zinc	ppm	1056	988	924	982
Phosphorus	ppm	878	805	876	850
Barium	ppm	0	0	0	0
Boron	ppm	2	<1	4	0

Depot: SCHGRE
Unique No: 10723869
Signed: Don Baldrige
Report Date: 02 Nov 2023

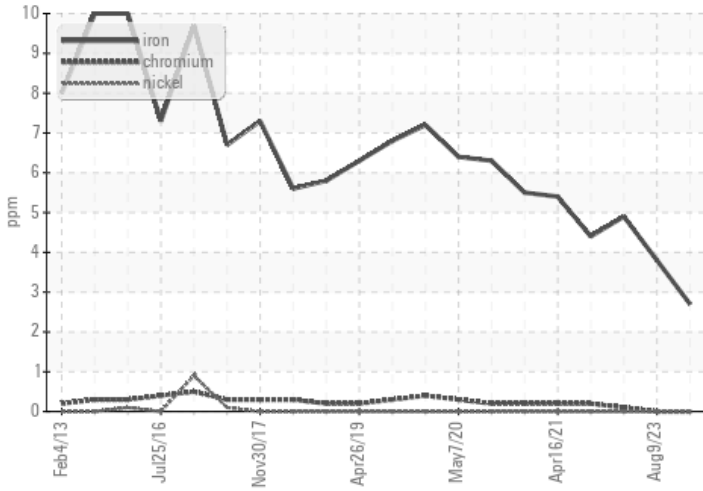


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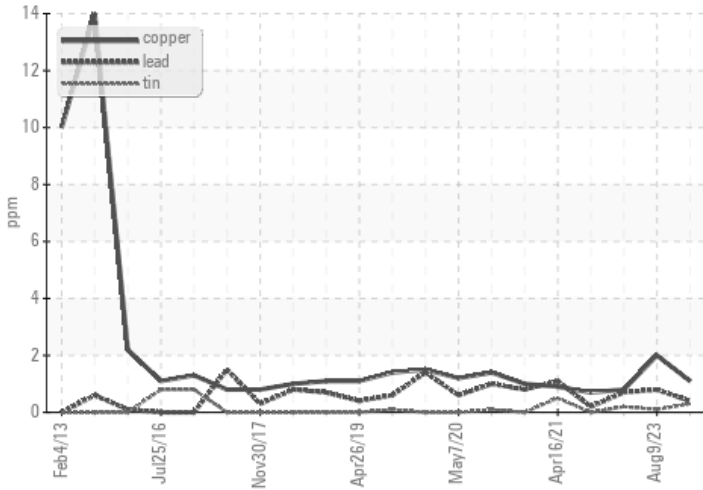


GRAPHS

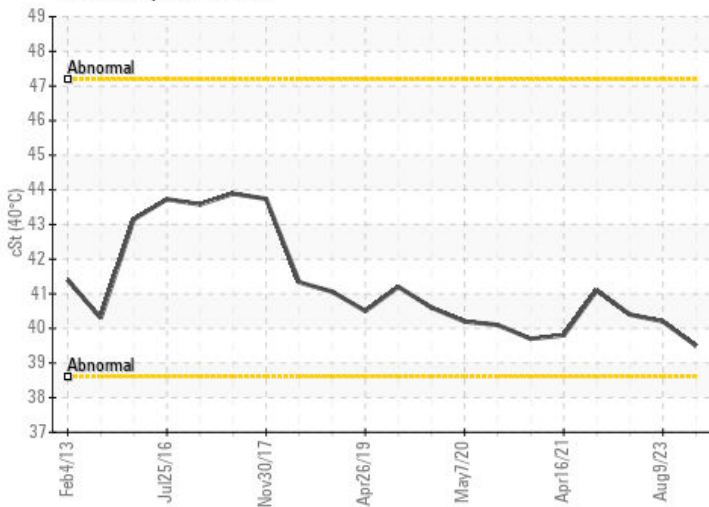
Ferrous Alloys



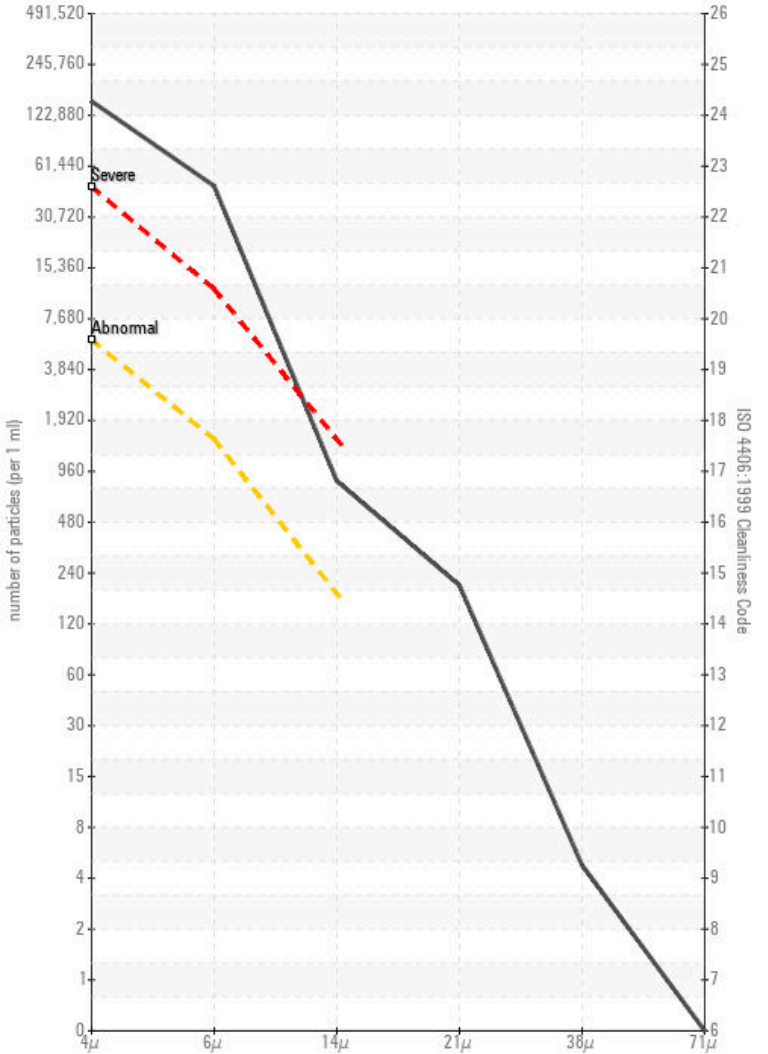
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

