



CONSTRUCTION EQUIPMENT

VOLVO L150H 5363 - HYDRAULIC SYSTEM



Sample No: VCP416550
Oil Type: ESSO NUTO H ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP416550	VCP393483	VCP418101	VCP409007
Sample Date	30 Oct 2023	07 Sep 2023	06 Sep 2023	28 Jun 2023
Machine Hours	9233	8999	12744	8740
Oil Hours	1222	988	744	740
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	41.7	41.7	44.5	41.7
Acid Number (AN)	mg KOH/g	0.38	0.38	0.35	0.40



CONTAMINATION

Particles >4µm	3394	617	605	378	
Particles >6µm	1010	166	225	113	
Particles >14µm	174	8	15	12	
ISO 4406:1999 (c)	19/17/15	16/15/10	16/15/11	16/14/11	
Silicon	ppm	<1	1	<1	1
Sodium	ppm	5	4	1	4
Potassium	ppm	0	<1	0	4

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 light amount of silt (particulates < 14 microns in size) 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	19	5	1	5
Copper	ppm	3	3	<1	3
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	0	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	<1	1	2	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	214	167	58	190
Magnesium	ppm	8	6	3	11
Zinc	ppm	460	461	440	480
Phosphorus	ppm	355	381	370	382
Barium	ppm	0	0	0	0
Boron	ppm	4	<1	0	1

Depot: MARDIC
Unique No: 10729363
Signed: Wes Davis
Report Date: 08 Nov 2023

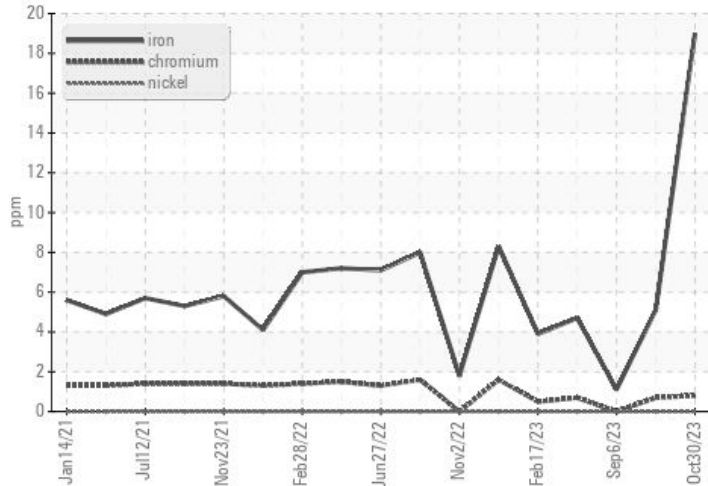


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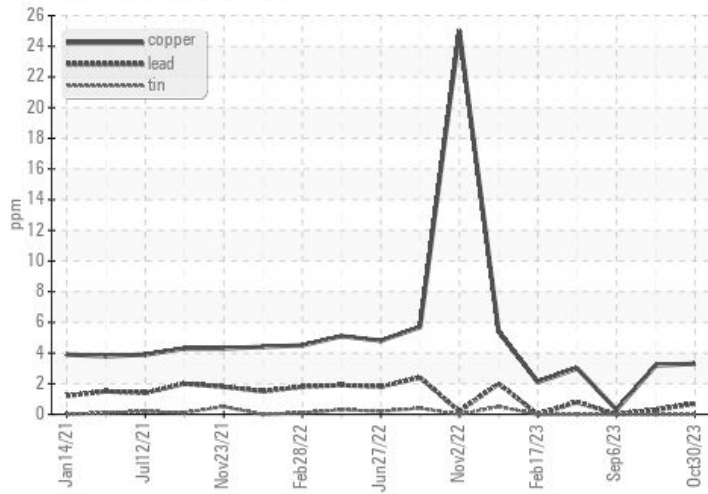


GRAPHS

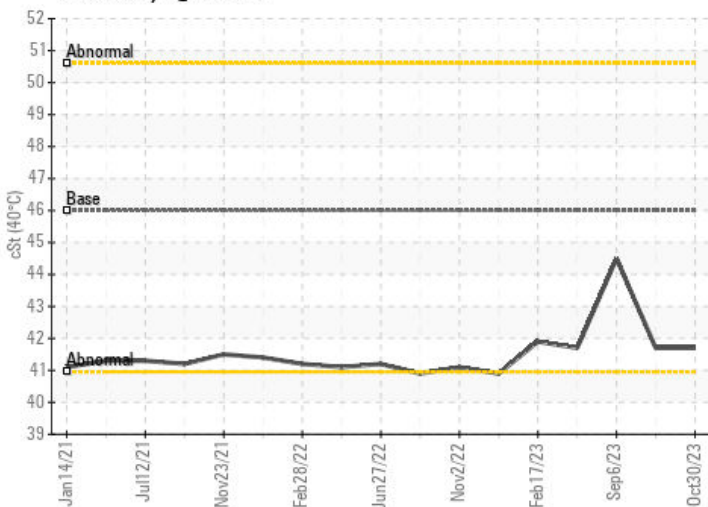
Ferrous Alloys



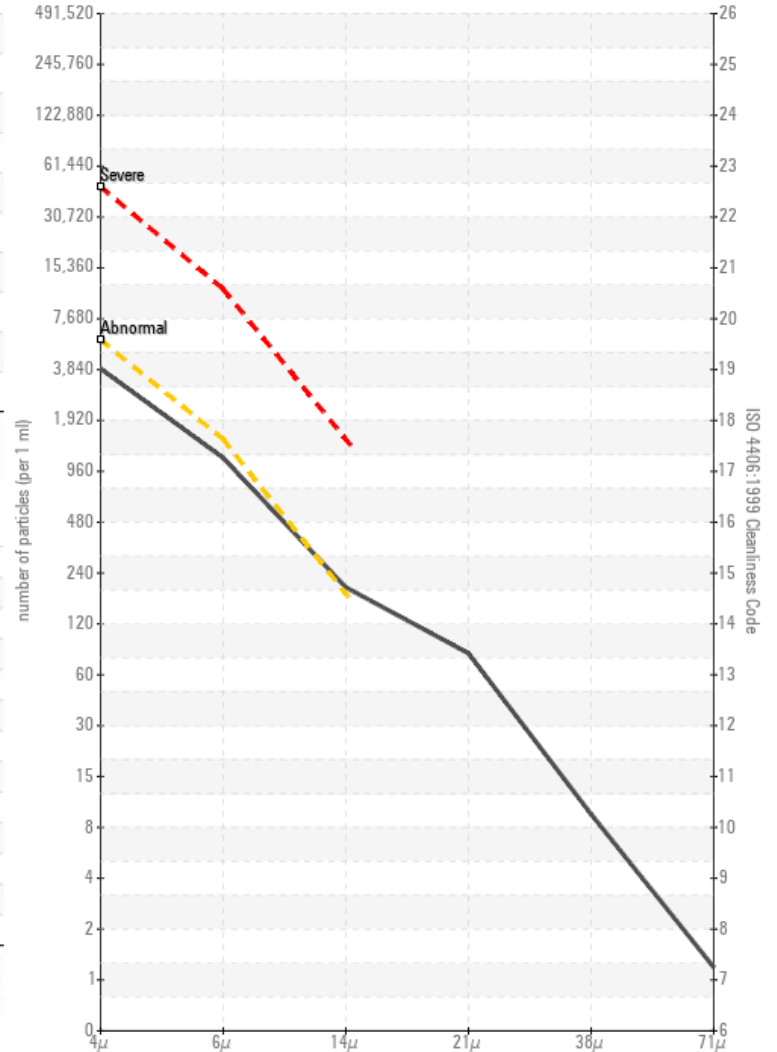
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

