



# CONSTRUCTION EQUIPMENT

## VOLVO L150H 5363 - HYDRAULIC SYSTEM



**Sample No:** VCP393483  
**Oil Type:** ESSO NUTO H ISO 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP393483</b>	VCP418101	VCP409007	VCP366586
Sample Date	<b>07 Sep 2023</b>	06 Sep 2023	28 Jun 2023	17 Feb 2023
Machine Hours	<b>8999</b>	12744	8740	8239
Oil Hours	<b>988</b>	744	740	250
Oil Changed	<b>Not Changd</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.7</b>	44.5	41.7	41.9
Acid Number (AN)	mg KOH/g	<b>0.38</b>	0.35	0.40	0.43

### CONTAMINATION

Particles >4µm	<b>617</b>	605	378	1923	
Particles >6µm	<b>166</b>	225	113	268	
Particles >14µm	<b>8</b>	15	12	32	
ISO 4406:1999 (c)	<b>16/15/10</b>	16/15/11	16/14/11	18/15/12	
Silicon	ppm	<b>1</b>	<1	1	2
Sodium	ppm	<b>4</b>	1	4	3
Potassium	ppm	<b>&lt;1</b>	0	4	<1

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	<b>5</b>	1	5	4
Copper	ppm	<b>3</b>	<1	3	2
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>0</b>	0	1	0
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>1</b>	2	1	1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	<1	0

### ADDITIVES

Calcium	ppm	<b>167</b>	58	190	168
Magnesium	ppm	<b>6</b>	3	11	14
Zinc	ppm	<b>461</b>	440	480	458
Phosphorus	ppm	<b>381</b>	370	382	352
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	1	2

**Depot:** MARDIC  
**Unique No:** 10644929  
**Signed:** Don Baldrige  
**Report Date:** 14 Sep 2023

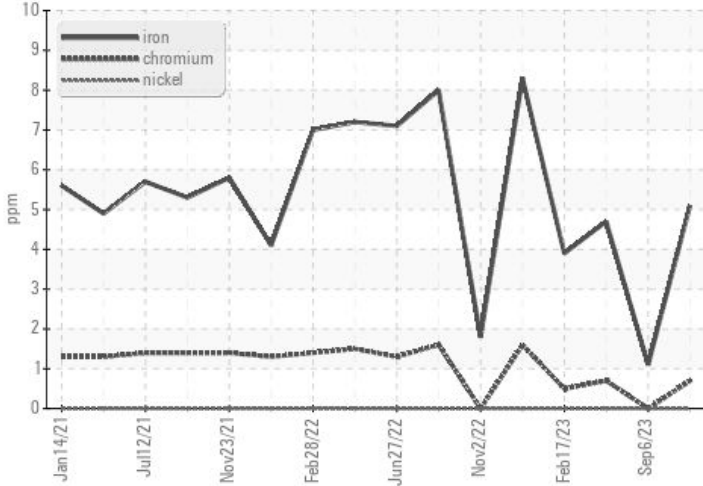


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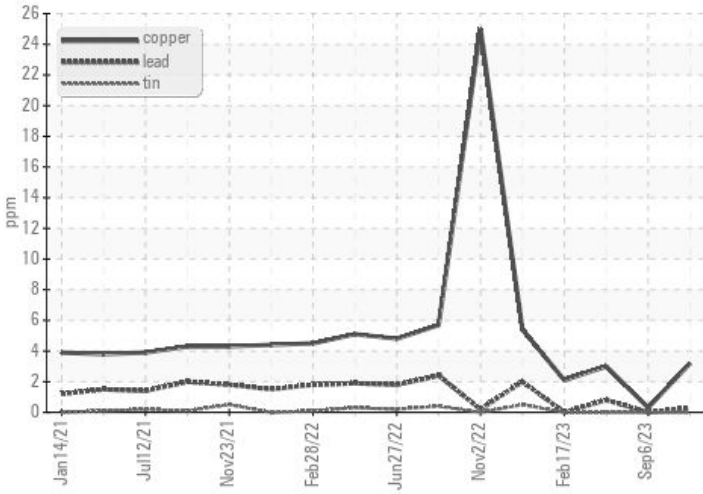


## VOLVO GRAPHS

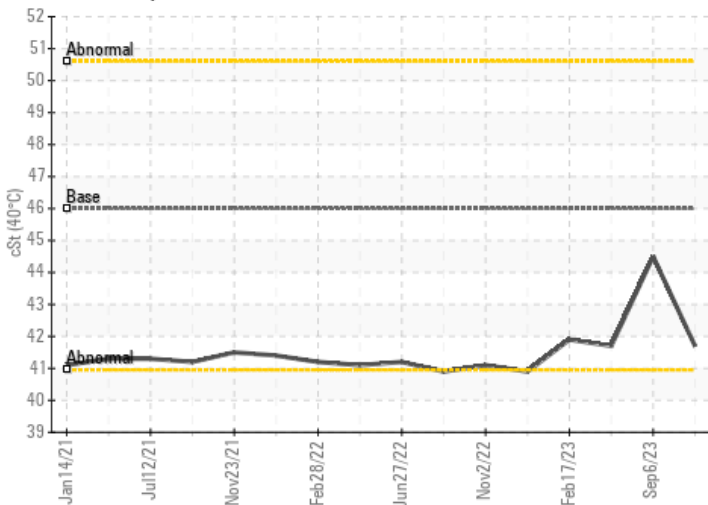
### Ferrous Alloys



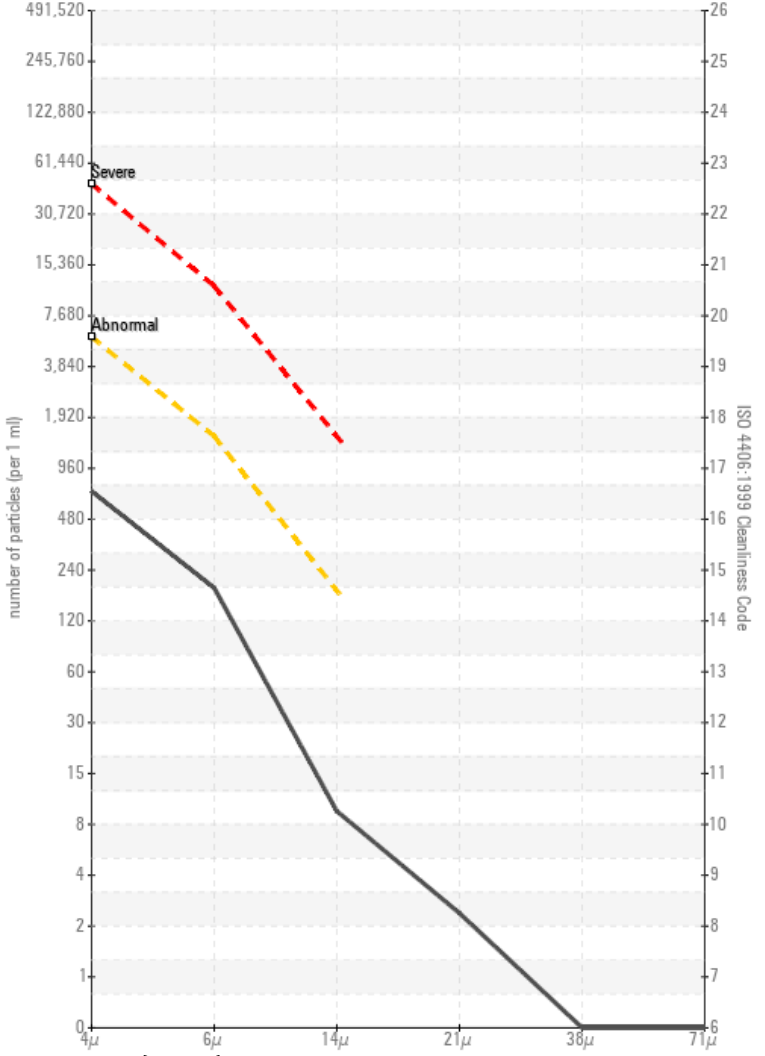
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

