



# CONSTRUCTION EQUIPMENT

## VOLVO L150G NR23026 - HYDRAULIC SYSTEM



**Sample No:** VCP436347  
**Oil Type:** ESSO NUTO H ISO 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP436347</b>	VCP396628	VCP399942	VCP338098
Sample Date	<b>05 Dec 2023</b>	05 Jun 2023	24 Mar 2023	21 Dec 2022
Machine Hours	<b>13014</b>	12465	12252	12001
Oil Hours	<b>1013</b>	465	250	2000
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.6</b>	44.6	44.5	45.0
Acid Number (AN)	mg KOH/g	<b>0.32</b>	0.34	0.38	0.331



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		<b>1266</b>	688	622	458
Particles >6µm		<b>336</b>	209	262	183
Particles >14µm		<b>50</b>	17	53	32
ISO 4406:1999 (c)		<b>17/16/13</b>	17/15/11	16/15/13	16/15/12
Silicon	ppm	<b>2</b>	<1	<1	1
Sodium	ppm	<b>0</b>	<1	<1	<1
Potassium	ppm	<b>2</b>	0	<1	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>1</b>	<1	<1	2
Copper	ppm	<b>&lt;1</b>	<1	0	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	<1	0	0
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>2</b>	2	2	4
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	0
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>50</b>	87	62	104
Magnesium	ppm	<b>0</b>	4	9	10
Zinc	ppm	<b>504</b>	503	495	465
Phosphorus	ppm	<b>386</b>	402	385	381
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** MARDIC  
**Unique No:** 10779765  
**Signed:** Wes Davis  
**Report Date:** 12 Dec 2023

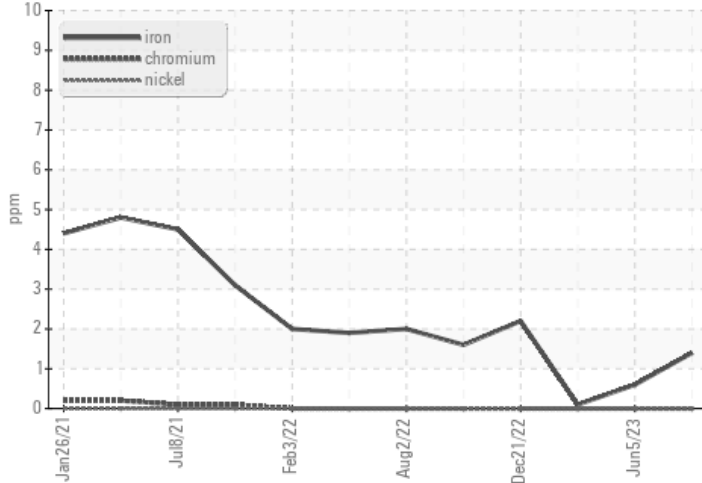


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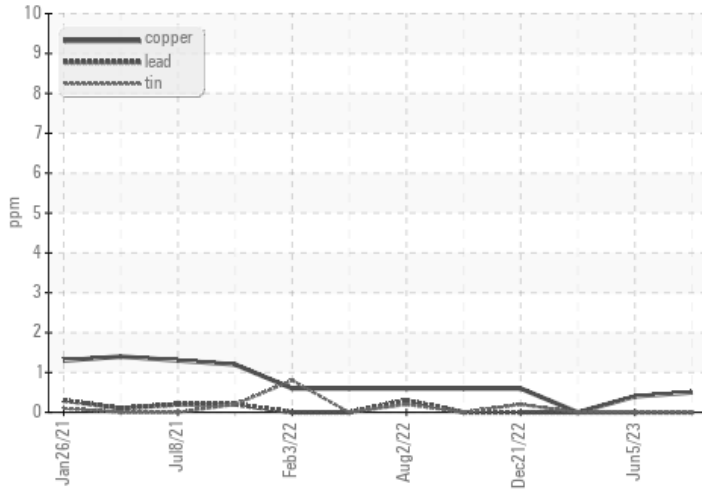


## GRAPHS

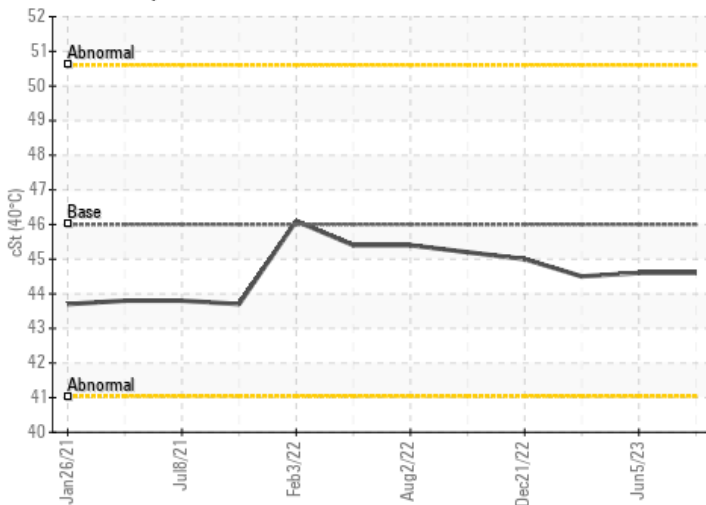
### Ferrous Alloys



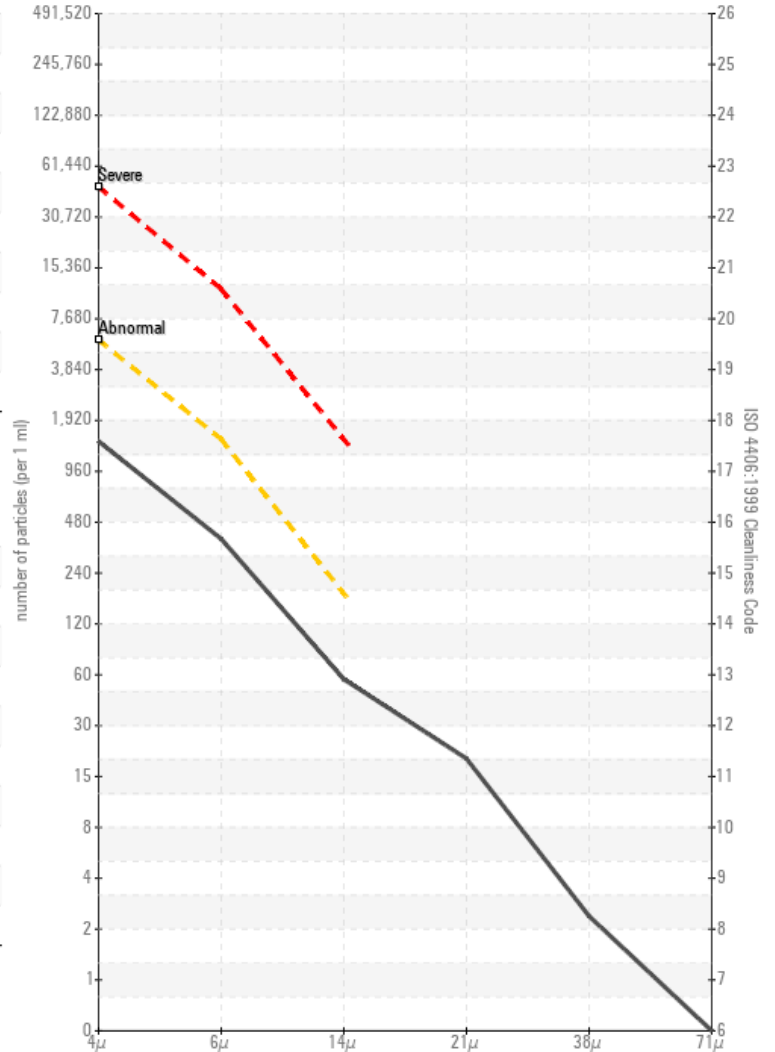
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

