



# CONSTRUCTION EQUIPMENT

## SWA572466-10 VOLVO L120H 632789 - HYDRAULIC SYSTEM



**Sample No:** VCP432016  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA572466-10



### SAMPLE INFORMATION

Sample Number	<b>VCP432016</b>	VCP376115	VCP343211	VCP332057
Sample Date	<b>30 May 2024</b>	26 Oct 2022	04 May 2022	14 Jan 2022
Machine Hours	<b>7044</b>	4122	3072	2502
Oil Hours	<b>3000</b>	2000	0	2502
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ATTENTION	ATTENTION

### DUFFY LAYTON

12 HUNNS LAKE RD  
 STANFORDVILLE, NY  
 US 12581  
 Contact: Service Manager



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.6</b>	44.1	44.5	44.4
Acid Number (AN)	mg KOH/g	<b>0.38</b>	0.47	0.44	0.51

T:  
F:



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>▲ 15049</b>	▲ 33393	● 5855	● 7727
Particles >6µm		<b>● 1447</b>	▲ 9750	■ 985	■ 459
Particles >14µm		<b>■ 121</b>	▲ 668	■ 52	■ 10
ISO 4406:1999 (c)		<b>21/18/14</b>	22/20/17	20/17/13	20/16/10
Silicon	ppm	<b>▲ 85</b>	■ 5	■ 6	■ 5
Sodium	ppm	<b>■ 4</b>	■ 0	■ 0	■ 0
Potassium	ppm	<b>■ 4</b>	■ 3	■ 3	■ 0

### 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 high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid.



### WEAR METALS

Iron	ppm	<b>■ 8</b>	■ 9	■ 9	■ 7
Copper	ppm	<b>■ 3</b>	■ 4	■ 3	■ 2
Lead	ppm	<b>■ &lt;1</b>	■ 2	■ 2	■ 1
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Aluminum	ppm	<b>■ 3</b>	■ 2	■ 3	■ 2
Chromium	ppm	<b>■ 1</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 2</b>	■ 6	■ 6	■ 6
Nickel	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ <1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>■ 435</b>	■ 264	■ 283	■ 259
Magnesium	ppm	<b>■ 29</b>	■ 39	■ 42	■ 41
Zinc	ppm	<b>■ 562</b>	■ 515	■ 521	■ 490
Phosphorus	ppm	<b>■ 443</b>	■ 390	■ 404	■ 407
Barium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 23</b>	■ 25	■ 36	■ 33

**Depot:** DUFSTA  
**Unique No:** 11071995  
**Signed:** Angela Borella  
**Report Date:** 12 Jun 2024

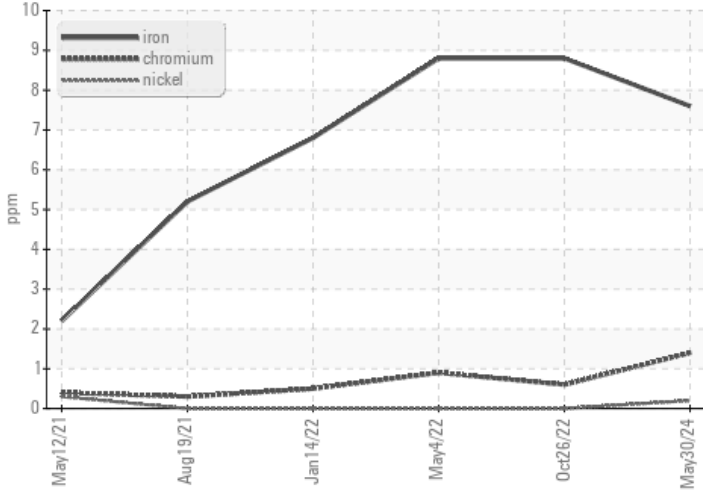


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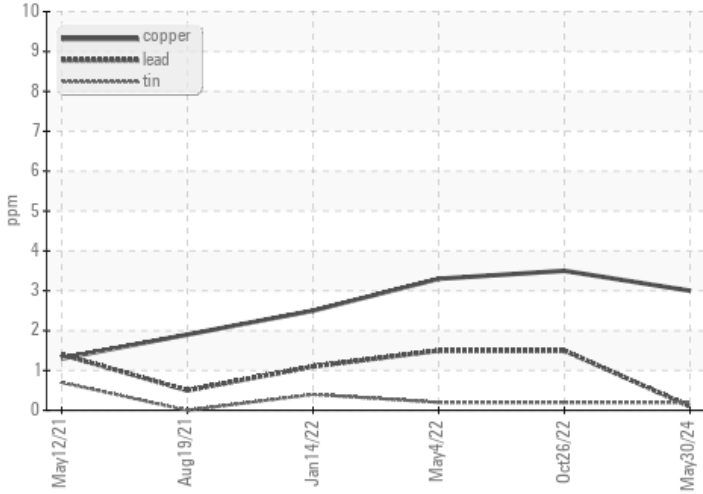


## VOLVO GRAPHS

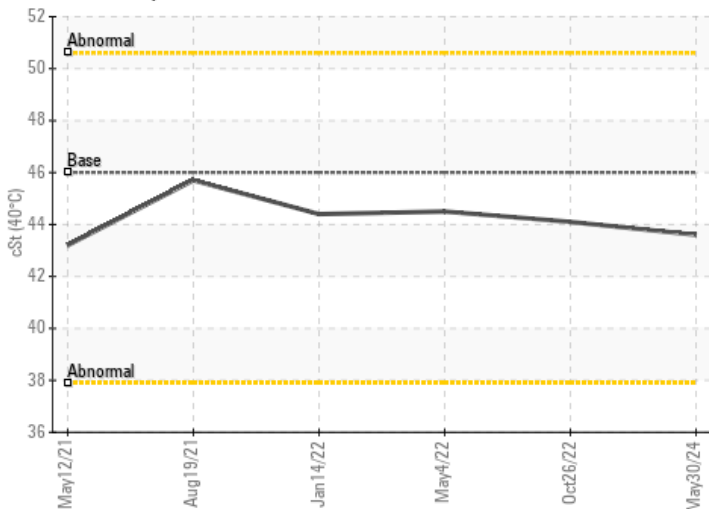
### Ferrous Alloys



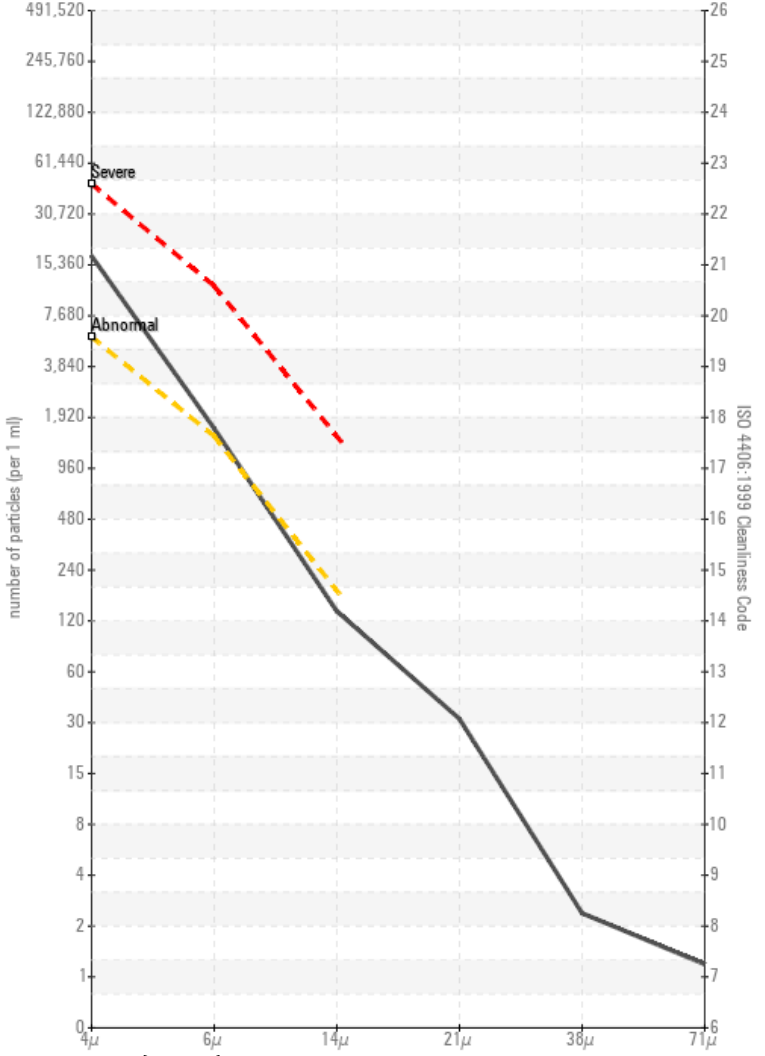
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

