



# CONSTRUCTION EQUIPMENT

RALIEGH, NC/ASCENDUM MACHINERY SERVICE AGREEMENT



**Sample No:** VCP418496  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 19116



## SAMPLE INFORMATION

Sample Number	<b>VCP418496</b>	VCP411461	VCP367029	VCP343237
Sample Date	<b>03 Jul 2023</b>	28 Feb 2023	28 Jun 2022	27 Dec 2021
Machine Hours	<b>9812</b>	9110	7986	7291
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	N/A
Sample Status	<b>ABNORMAL</b>	NORMAL	ATTENTION	ABNORMAL



**IAA - INSURANCE AUTO AUCTIONS - CLAYTON**  
 60 SADISCO RD  
 CLAYTON, NC  
 US 27520  
 Contact: Service Manager



## OIL CONDITION

Visc @ 40°C	cSt	<b>43.1</b>	42.5	42.0	42.1
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.31	0.32	0.171

T:  
F:



## CONTAMINATION

Particles >4µm		<b>40823</b>	7985	10541	31056
Particles >6µm		<b>10953</b>	1833	2796	5336
Particles >14µm		<b>600</b>	49	139	209
ISO 4406:1999 (c)		<b>23/21/16</b>	20/18/13	21/19/14	22/20/15
Silicon	ppm	<b>4</b>	4	7	7
Sodium	ppm	<b>&lt;1</b>	2	0	0
Potassium	ppm	<b>0</b>	0	1	<1

## Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



## WEAR METALS

Iron	ppm	<b>11</b>	10	18	24
Copper	ppm	<b>2</b>	2	5	5
Lead	ppm	<b>0</b>	0	2	2
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	2	3
Chromium	ppm	<b>&lt;1</b>	<1	2	2
Molybdenum	ppm	<b>0</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>75</b>	60	60	58
Magnesium	ppm	<b>&lt;1</b>	2	<1	<1
Zinc	ppm	<b>451</b>	375	424	443
Phosphorus	ppm	<b>364</b>	289	320	329
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	<1	1

**Depot:** INSCLA  
**Unique No:** 10552605  
**Signed:** Wes Davis  
**Report Date:** 13 Jul 2023

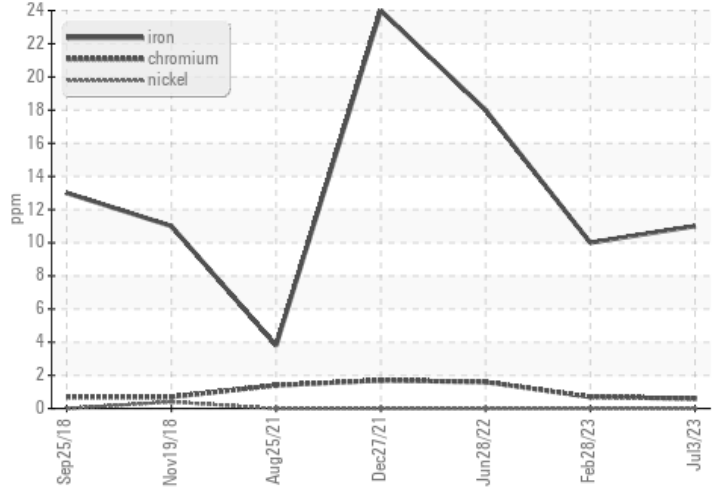


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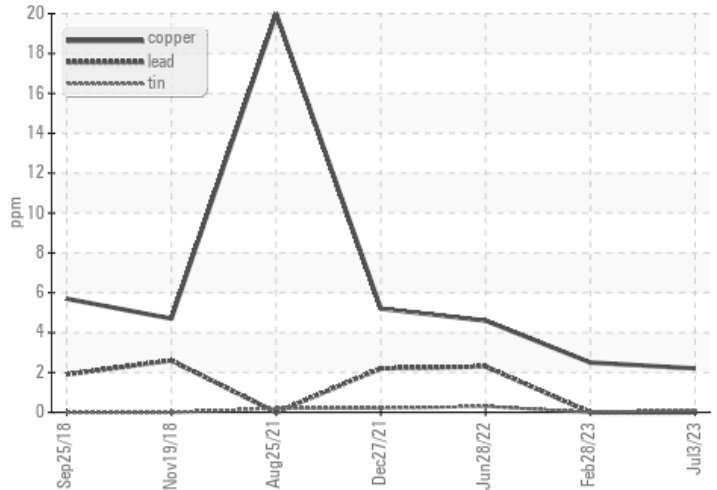


## VOLVO GRAPHS

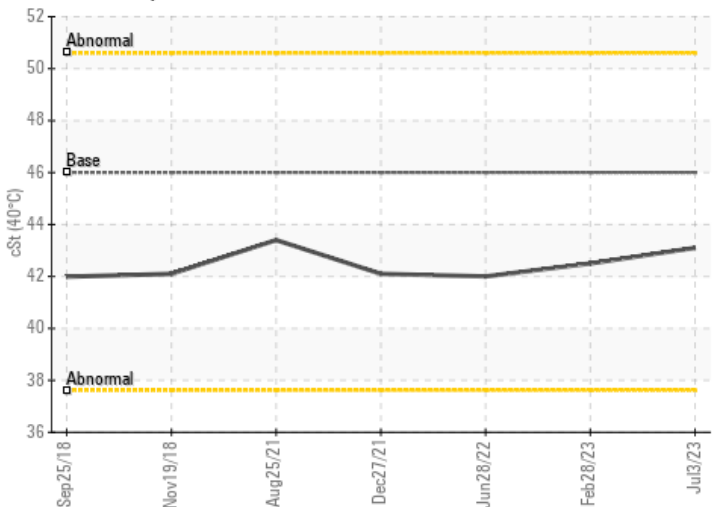
Ferrous Alloys



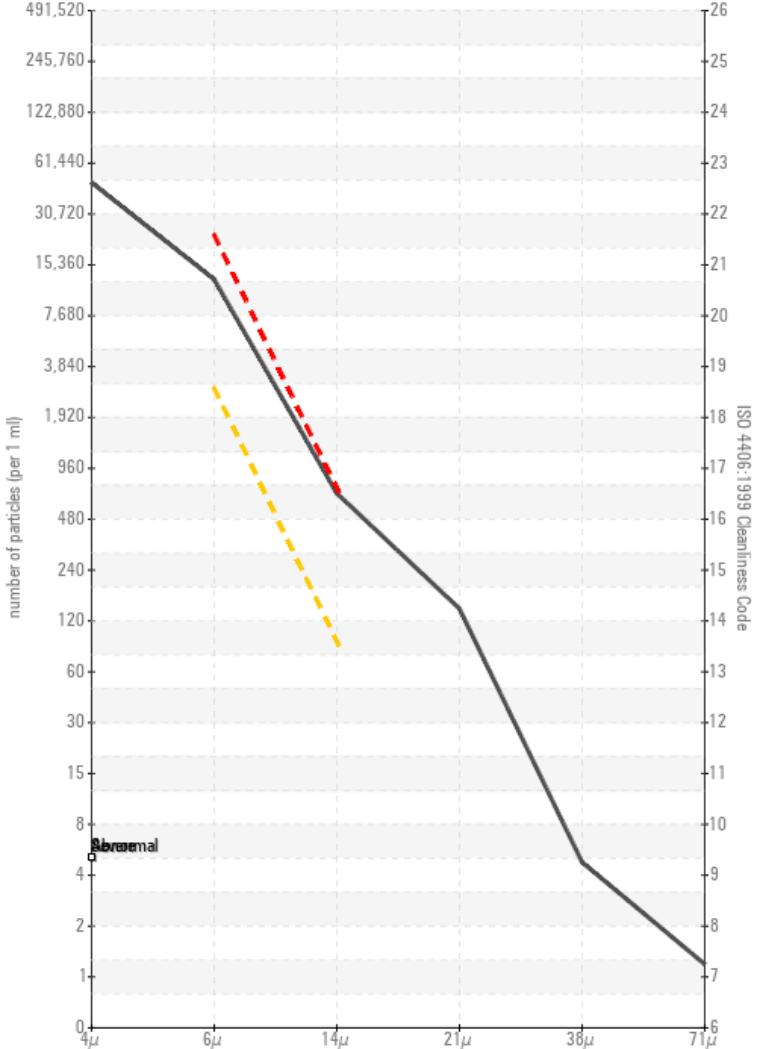
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

