



# CONSTRUCTION EQUIPMENT

## A11722 VOLVO A40G DE-1622 (S/N 352023) - HYDRAULIC SYSTEM



**Sample No:** VCP441982  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** A11722



### SAMPLE INFORMATION

Sample Number	<b>VCP441982</b>	VCP386055	VCB0000006	VCB0000003
Sample Date	<b>23 Dec 2023</b>	29 Nov 2022	21 Oct 2021	07 Apr 2021
Machine Hours	<b>3123</b>	2635	2030	1415
Oil Hours	<b>0</b>	0	2030	1415
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>SEVERE</b>	ABNORMAL	NORMAL	ATTENTION

**DYER QUARRY**  
P.O. BOX 188, 1275 ROCK HOLLOW ROAD  
BIRDSBORO, PA  
US 19508  
Contact: MATT MCCLELLAND  
matt.mcclelland@dyerquarry.com  
T:  
F: (610)582-2304

### OIL CONDITION

Visc @ 40°C	cSt	<b>40.7</b>	40.6	41.3	41.5
Acid Number (AN)	mg KOH/g	<b>0.60</b>	0.39	0.402	0.496

### CONTAMINATION

Water	%	<b>NEG</b>	0.123	NEG	NEG
Particles >4µm		<b>95176</b>	---	7298	22058
Particles >6µm		<b>36279</b>	---	1980	5235
Particles >14µm		<b>3156</b>	---	138	252
ISO 4406:1999 (c)		<b>24/22/19</b>	---	20/18/14	22/20/15
Silicon	ppm	<b>9</b>	11	5	6
Sodium	ppm	<b>2</b>	2	2	2
Potassium	ppm	<b>0</b>	0	0	8

### Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high 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>6</b>	7	4	4
Copper	ppm	<b>2</b>	4	3	3
Lead	ppm	<b>1</b>	3	3	3
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>0</b>	<1	<1	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	<1	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>640</b>	160	154	49
Magnesium	ppm	<b>13</b>	4	3	<1
Zinc	ppm	<b>540</b>	478	445	417
Phosphorus	ppm	<b>494</b>	389	342	326
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>&lt;1</b>	<1	4	<1

**Depot:** DYEBIR  
**Unique No:** 10821821  
**Signed:** Wes Davis  
**Report Date:** 10 Jan 2024

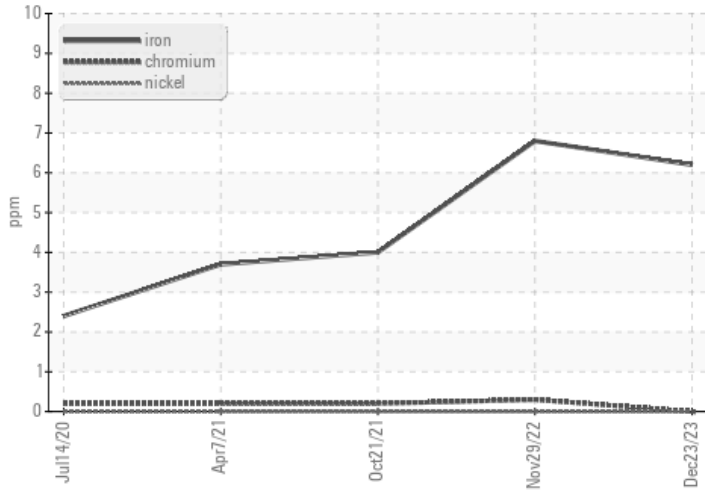


# CONSTRUCTION EQUIPMENT

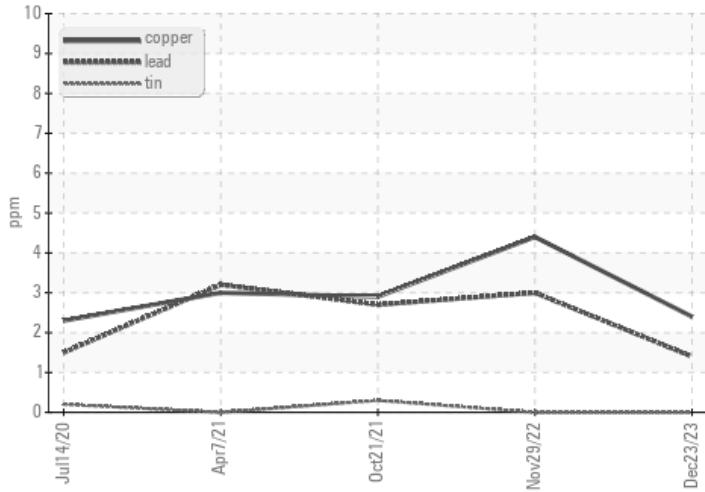


## GRAPHS

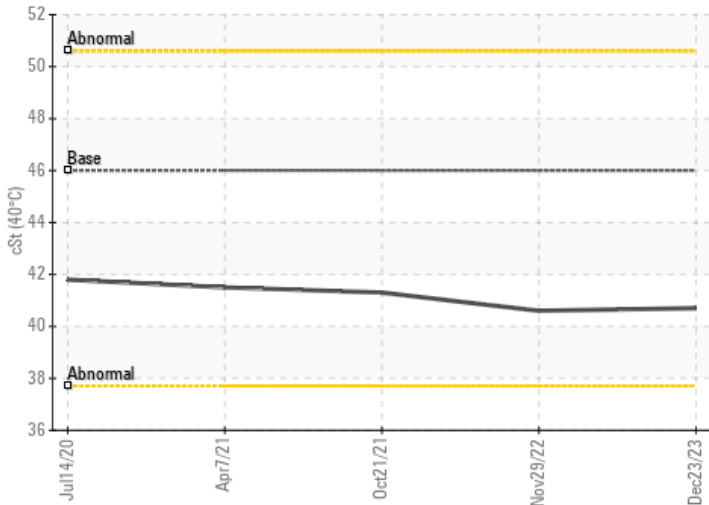
Ferrous Alloys



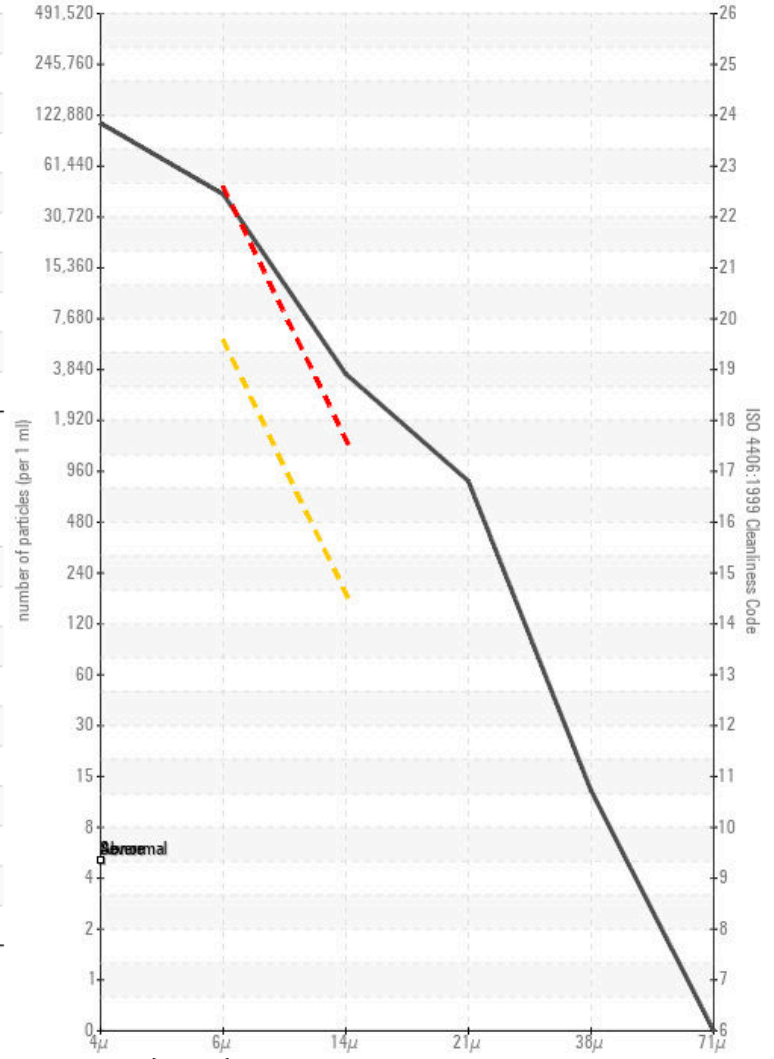
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

