



# CONSTRUCTION EQUIPMENT

## 716821 MOSAIC VOLVO EC480EL 315147 - HYDRAULIC SYSTEM



**Sample No:** VCP454994  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 716821 MOSAIC



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: JOHN FARDELLA  
 john.fardella@altg.com  
 T: (813)630-0077  
 F: (813)630-2233



### SAMPLE INFORMATION

Sample Number	<b>VCP454994</b>	VCP454177	VCP455362	VCP417662
Sample Date	<b>24 May 2024</b>	13 Jan 2024	02 Jan 2024	21 Aug 2023
Machine Hours	<b>2182</b>	1647	1748	812
Oil Hours	<b>2182</b>	1647	0	812
Oil Changed	<b>Changed</b>	Not Changd	N/A	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.5</b>	41.0	40.1	41.1
Acid Number (AN)	mg KOH/g	<b>0.52</b>	0.50	0.53	0.50



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>▲ 124608</b>	30424	6061	12514
Particles >6µm		<b>▲ 62241</b>	2582	1325	1476
Particles >14µm		<b>407</b>	28	81	58
ISO 4406:1999 (c)		<b>24/23/16</b>	22/19/12	20/18/14	21/18/13
Silicon	ppm	<b>3</b>	5	4	5
Sodium	ppm	<b>0</b>	2	0	2
Potassium	ppm	<b>1</b>	2	0	0



### WEAR METALS

Iron	ppm	<b>3</b>	2	0	1
Copper	ppm	<b>15</b>	16	16	11
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	<1	0	0
Chromium	ppm	<b>&lt;1</b>	0	<1	0
Molybdenum	ppm	<b>2</b>	0	0	0
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>294</b>	68	71	90
Magnesium	ppm	<b>16</b>	2	0	<1
Zinc	ppm	<b>542</b>	484	488	525
Phosphorus	ppm	<b>408</b>	396	362	378
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>5</b>	0	0	0

### Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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.

**Depot:** VOLVO0093  
**Unique No:** 11087451  
**Signed:** Wes Davis  
**Report Date:** 20 Jun 2024

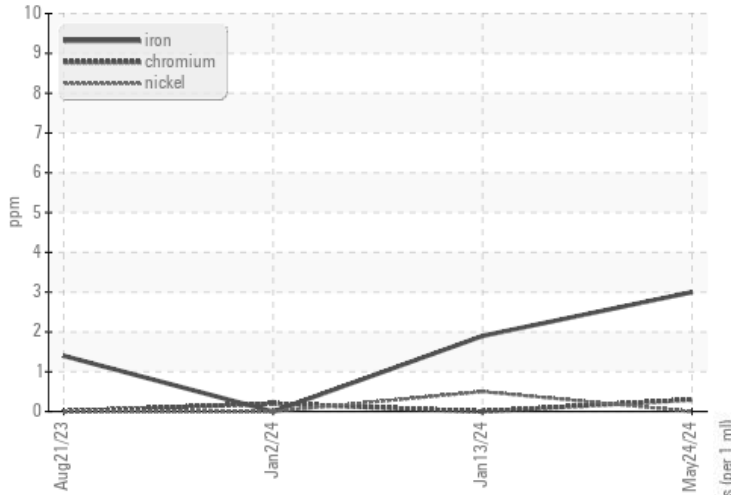


# CONSTRUCTION EQUIPMENT

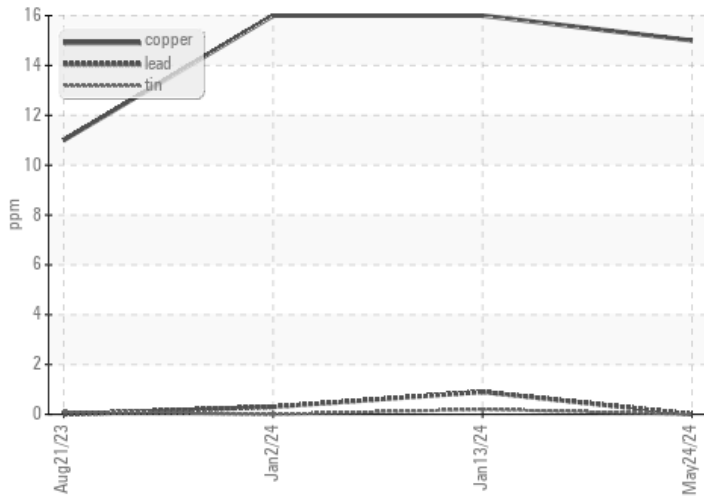


## GRAPHS

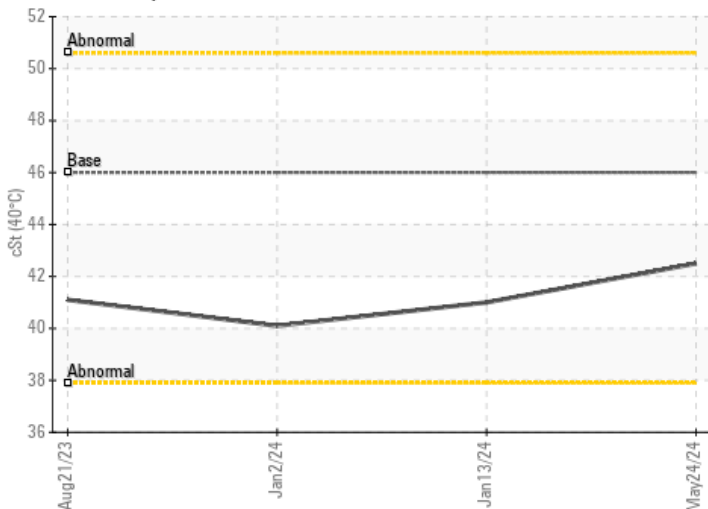
### Ferrous Alloys



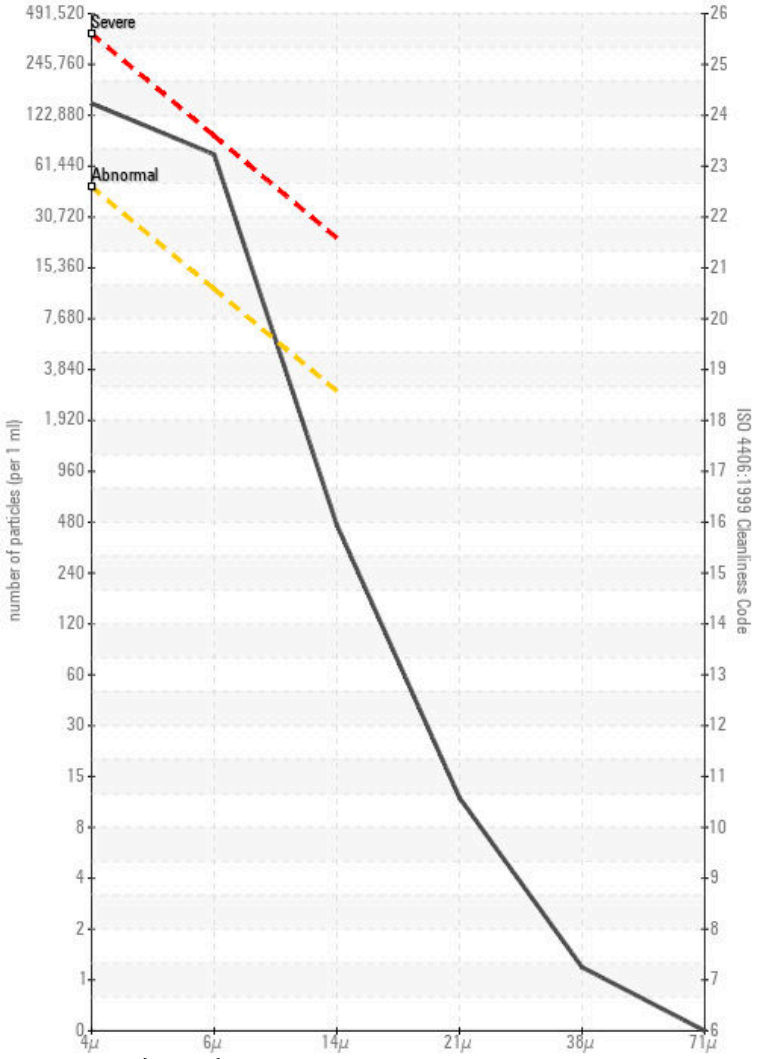
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

