



# CONSTRUCTION EQUIPMENT

## SPM580384 VOLVO EC480 314333 - HYDRAULIC SYSTEM



**Sample No:** VCP417691  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM580384



### SAMPLE INFORMATION

Sample Number	<b>VCP417691</b>	VCP363867	VCP378756	VCP377493
Sample Date	<b>17 Jul 2023</b>	29 Aug 2022	08 Aug 2022	23 Apr 2022
Machine Hours	<b>4033</b>	630	3256	2740
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ORANGE COUNTY SOLID WASTE**  
 5901 YOUNG PINE ROAD  
 ORLANDO, FL  
 US 32829  
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 michael.beebe@ocfl.net  
 T: (407)836-6652  
 F: (407)836-6650



### OIL CONDITION

Visc @ 40°C	cSt	<b>40.6</b>	42.5	41.9	42.4
Acid Number (AN)	mg KOH/g	<b>0.59</b>	0.51	0.56	0.56



### CONTAMINATION

Particles >4µm		<b>1829</b>	4237	14832	11436
Particles >6µm		<b>202</b>	232	3256	2119
Particles >14µm		<b>15</b>	10	183	101
ISO 4406:1999 (c)		<b>18/15/11</b>	19/15/10	21/19/15	21/18/14
Silicon	ppm	<b>13</b>	3	17	13
Sodium	ppm	<b>6</b>	1	4	4
Potassium	ppm	<b>&lt;1</b>	0	0	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>3</b>	2	6	4
Copper	ppm	<b>11</b>	19	14	10
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>5</b>	<1	9	7
Chromium	ppm	<b>&lt;1</b>	<1	1	<1
Molybdenum	ppm	<b>9</b>	0	7	6
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>&lt;1</b>	0	<1	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>628</b>	74	431	462
Magnesium	ppm	<b>33</b>	0	20	21
Zinc	ppm	<b>586</b>	507	540	529
Phosphorus	ppm	<b>520</b>	408	448	481
Barium	ppm	<b>0</b>	<1	2	0
Boron	ppm	<b>11</b>	0	0	9

**Depot:** ORAORL  
**Unique No:** 10565661  
**Signed:** Wes Davis  
**Report Date:** 24 Jul 2023

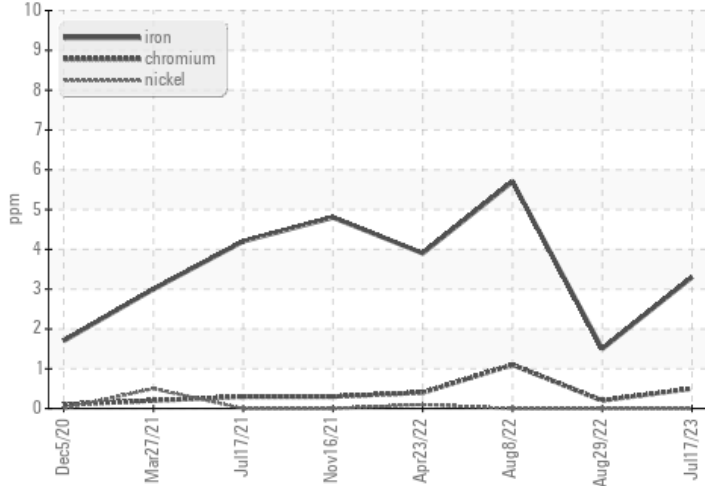


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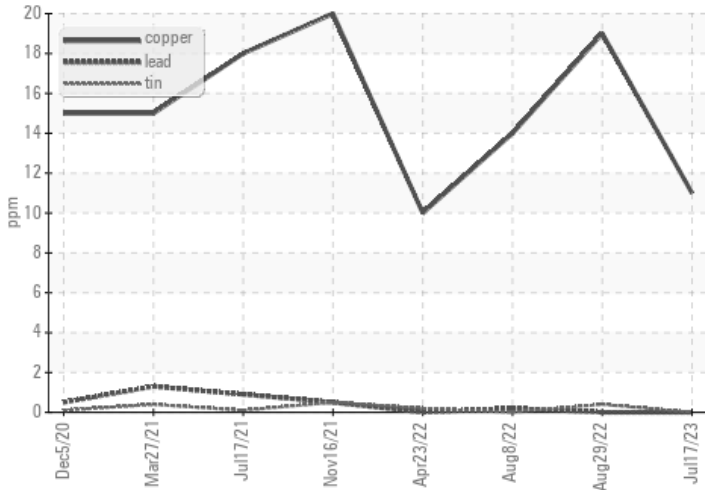


## GRAPHS

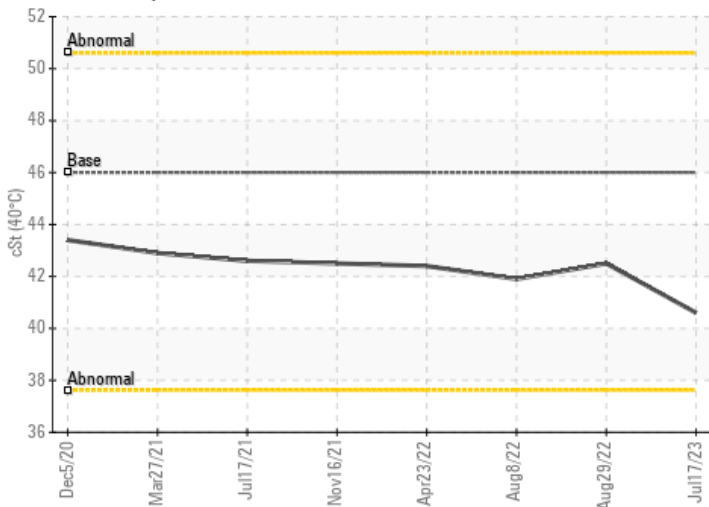
### Ferrous Alloys



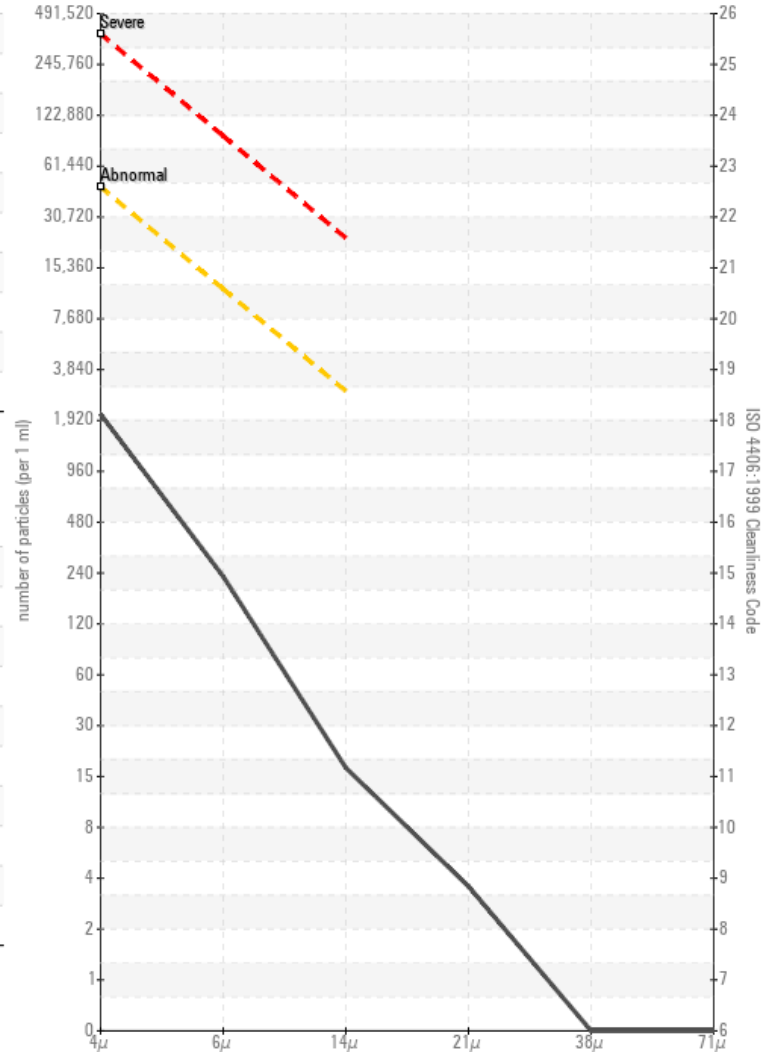
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

