



# CONSTRUCTION EQUIPMENT

## 314195 VOLVO EC350EL 310534 - HYDRAULIC SYSTEM



**Sample No:** VCP335062  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 314195



**STRONGCO EQUIPMENT--CALGARY**  
 7923 54TH STREET SE  
 CALGARY, AB  
 CA T2C 4R7  
 Contact: Tracey Lewin  
 tlewin@strongco.com  
 T: (403)216-1010  
 F: (403)216-1016



### SAMPLE INFORMATION

Sample Number	<b>VCP335062</b>	VCP213779	VCP233260	VCP210237
Sample Date	<b>09 Feb 2022</b>	31 Jan 2019	14 Dec 2018	03 Nov 2018
Machine Hours	<b>4369</b>	1044	764	518
Oil Hours	<b>0</b>	1044	764	518
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 40°C	cSt	<b>31.3</b>	31.4	31.5	31.6
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### CONTAMINATION

Particles >4µm		<b>5891</b>	3558	3148	3163
Particles >6µm		<b>547</b>	221	454	90
Particles >14µm		<b>45</b>	25	16	5
ISO 4406:1999 (c)		<b>20/16/13</b>	19/15/12	19/16/11	19/14/10
Silicon	ppm	<b>3</b>	1	1	2
Sodium	ppm	<b>&lt;1</b>	<1	<1	<1
Potassium	ppm	<b>1</b>	<1	<1	<1



### WEAR METALS

Iron	ppm	<b>3</b>	2	2	1
Copper	ppm	<b>8</b>	11	9	8
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	0
Chromium	ppm	<b>&lt;1</b>	0	0	0
Molybdenum	ppm	<b>&lt;1</b>	<1	0	0
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>66</b>	117	119	121
Magnesium	ppm	<b>1</b>	1	<1	<1
Zinc	ppm	<b>495</b>	656	672	678
Phosphorus	ppm	<b>420</b>	513	530	532
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	0	<1

### 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 condition of the oil is acceptable for the time in service.

**Depot:** VOLVO3909  
**Unique No:** 5356916  
**Signed:** Wes Davis  
**Report Date:** 15 Feb 2022

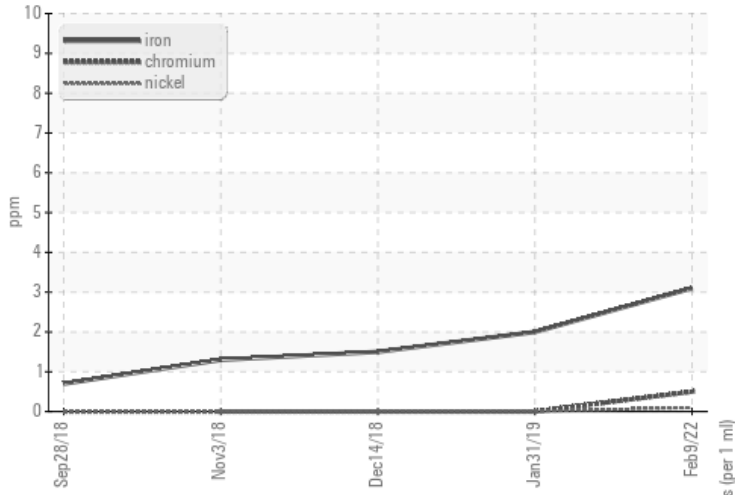


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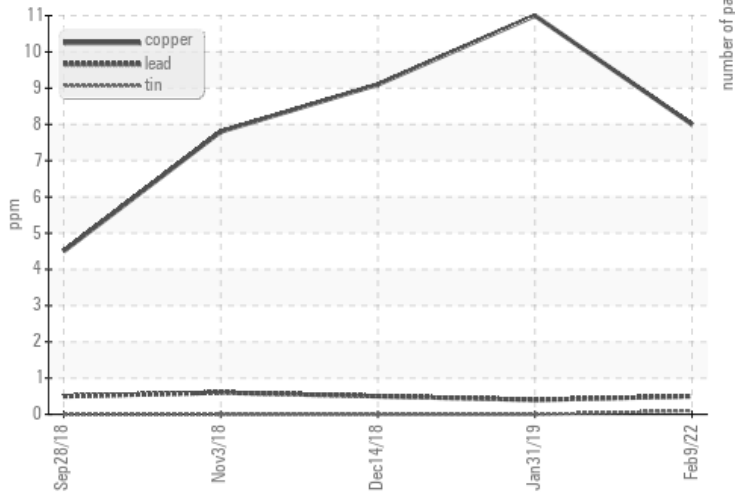


## GRAPHS

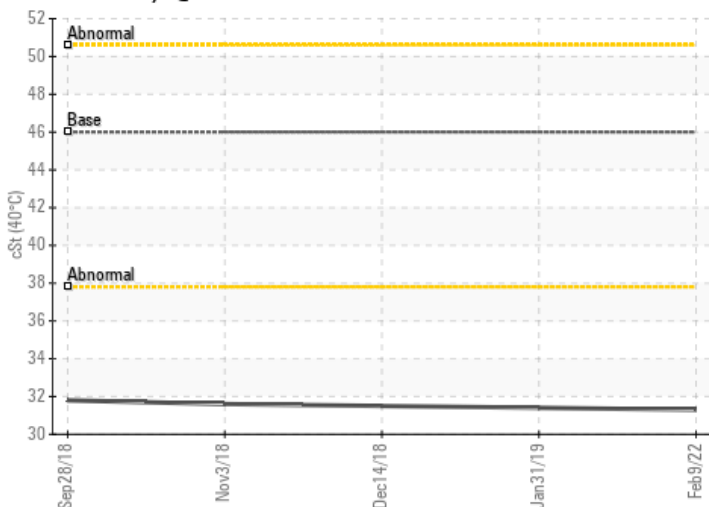
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count

