



# CONSTRUCTION EQUIPMENT

## W07013940-1 VESS VOLVO EC220EL 310297 - REAR LEFT FINAL DRIVE



**Sample No:** VCP350701  
**Oil Type:** GEAR OIL SAE 75W80  
**Job No:** W07013940-1 VESS



**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
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### SAMPLE INFORMATION

Sample Number	<b>VCP350701</b>	VCP358975	VCP250420	VCP321331
Sample Date	<b>13 Dec 2023</b>	16 Aug 2022	19 Apr 2022	28 Jul 2021
Machine Hours	<b>5969</b>	5245	5032	4501
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Chngd	Changed	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 40°C	cSt	<b>56.8</b>	52.3	50.1	50.7
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>6</b>	3	2	13
Sodium	ppm	<b>0</b>	<1	3	3
Potassium	ppm	<b>&lt;1</b>	<1	0	<1



### WEAR METALS

Iron	ppm	<b>56</b>	41	43	113
Copper	ppm	<b>0</b>	<1	0	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>2</b>	2	<1	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>0</b>	<1	0	<1
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>0</b>	<1	<1	1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>13</b>	8	9	8
Magnesium	ppm	<b>&lt;1</b>	2	0	1
Zinc	ppm	<b>0</b>	10	9	7
Phosphorus	ppm	<b>2070</b>	2347	2553	2347
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>232</b>	289	239	315

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO8882  
**Unique No:** 10794978  
**Signed:** Wes Davis  
**Report Date:** 20 Dec 2023

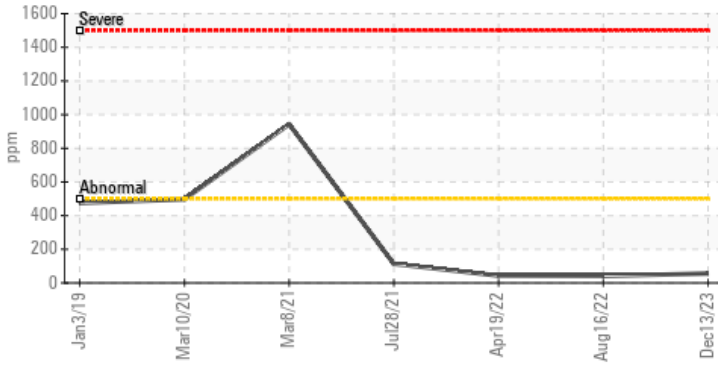


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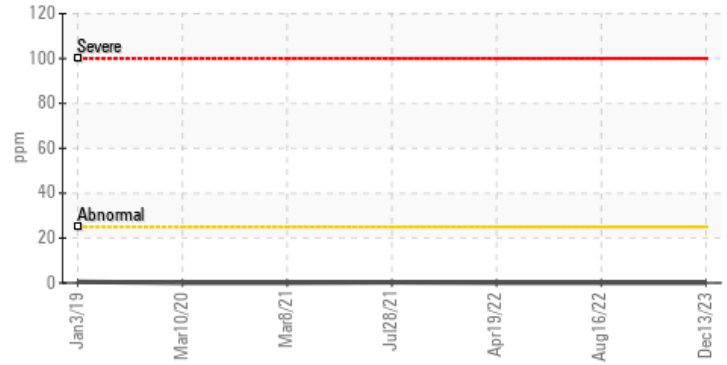


## GRAPHS

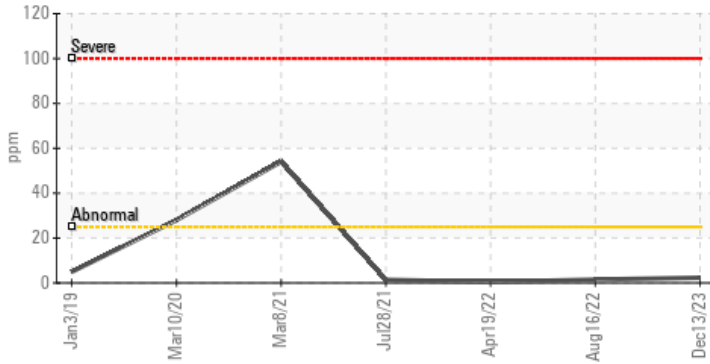
### Iron (ppm)



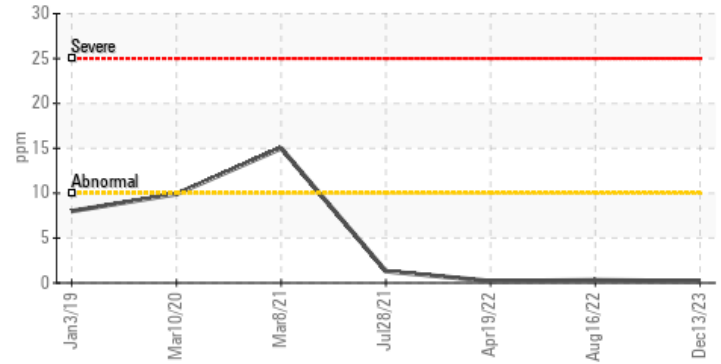
### Lead (ppm)



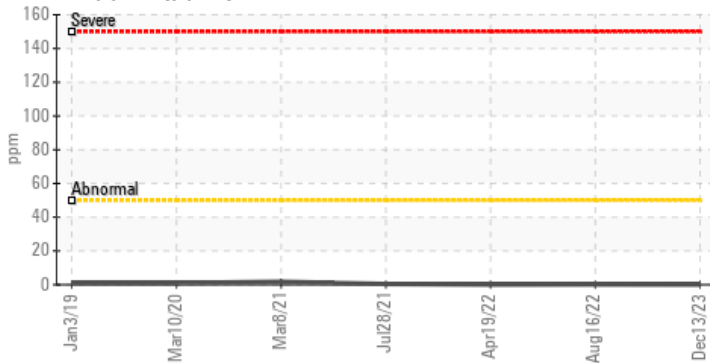
### Aluminum (ppm)



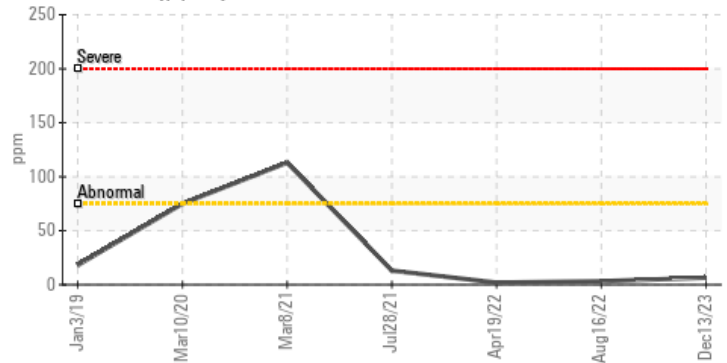
### Chromium (ppm)



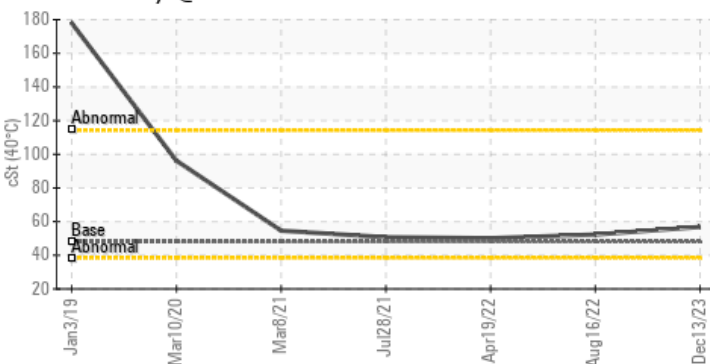
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

