



# CONSTRUCTION EQUIPMENT

## VOLVO G970 530077 - DIESEL ENGINE



**Sample No:** VC466753  
**Oil Type:** CO-OP D-MO SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VC466753</b>	VCP204721	VC461052	VCE132332
Sample Date	<b>19 Feb 2024</b>	20 Feb 2023	08 Jan 2020	09 Feb 2016
Machine Hours	<b>15245</b>	11820	6820	2085
Oil Hours	<b>150</b>	0	180	220
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**HAUSER CONSTRUCTION**  
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 T: (780)375-3776  
 F: (780)375-3776

### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.8	13.2	14.3
Oxidation (PA)	%	<b>57</b>	53	55	63

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0</b>	0	0	0
Nitration (PA)	%	<b>65</b>	62	72	48
Sulfation (PA)	%	<b>50</b>	51	60	55
Glycol	%	<b>NEG</b>	NEG	NEG	0.0
Fuel	%	<b>&lt;1.0</b>	<1.0	1.9	<1.0
Silicon	ppm	<b>3</b>	7	7	4
Sodium	ppm	<b>2</b>	3	2	2
Potassium	ppm	<b>&lt;1</b>	<1	<1	6

### 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.

### WEAR METALS

Iron	ppm	<b>1</b>	2	2	4
Copper	ppm	<b>&lt;1</b>	0	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>3</b>	3	2	<1
Chromium	ppm	<b>0</b>	0	<1	0
Molybdenum	ppm	<b>86</b>	88	85	<1
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>2175</b>	2334	2228	2279
Magnesium	ppm	<b>14</b>	12	14	8
Zinc	ppm	<b>1143</b>	1179	1175	1148
Phosphorus	ppm	<b>1041</b>	1130	1007	981
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>59</b>	70	64	31

**Depot:** HAUROS  
**Unique No:** 5736335  
**Signed:** Wes Davis  
**Report Date:** 01 Mar 2024

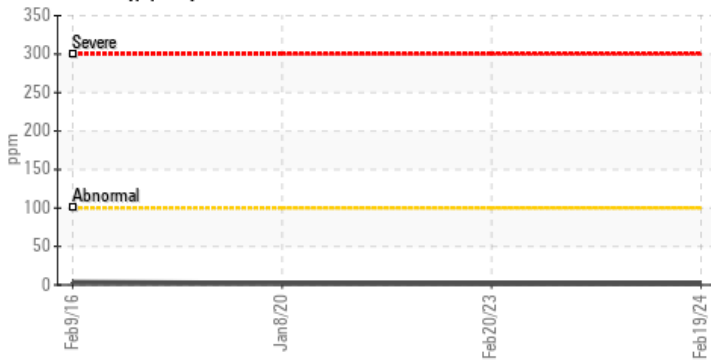


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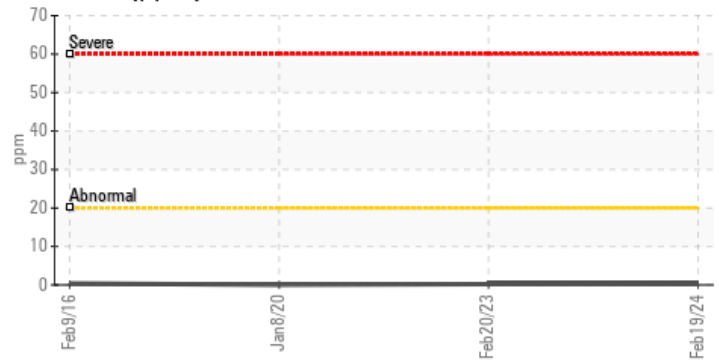


## GRAPHS

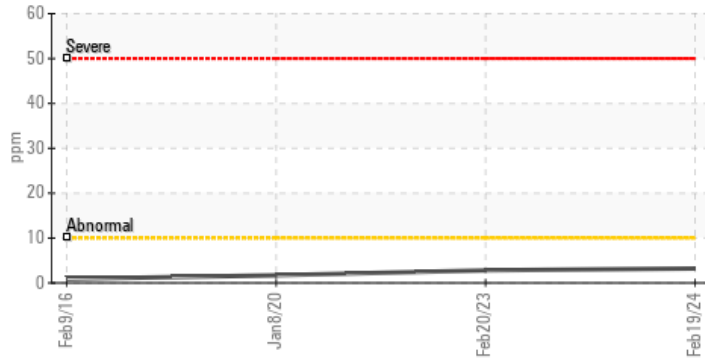
### Iron (ppm)



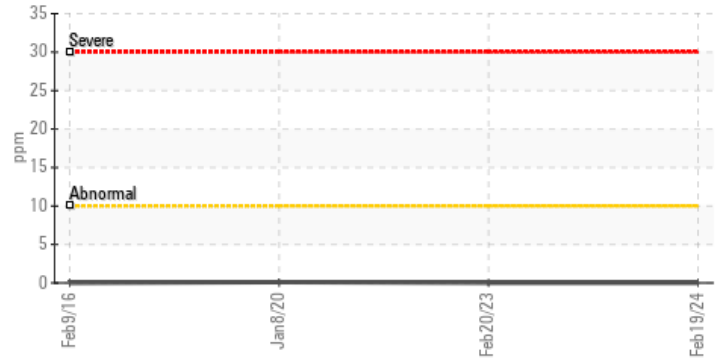
### Lead (ppm)



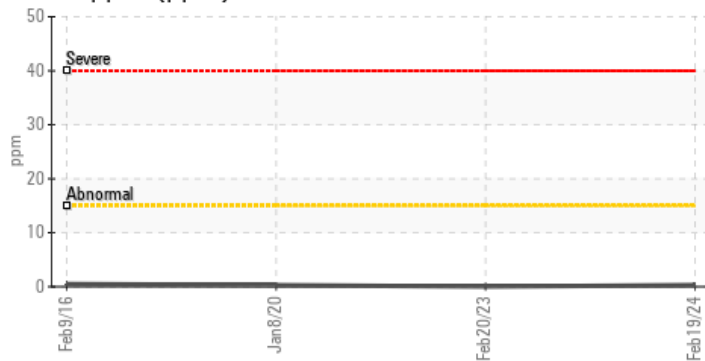
### Aluminum (ppm)



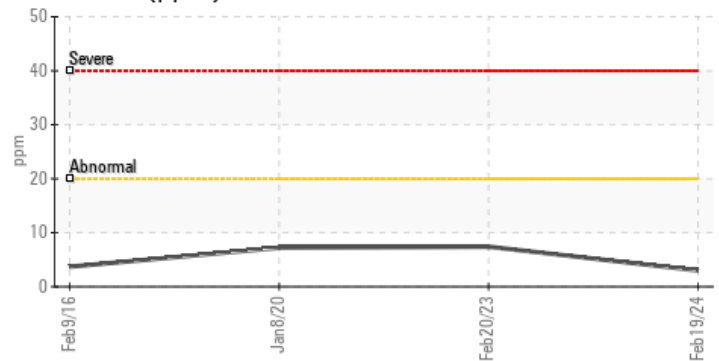
### Chromium (ppm)



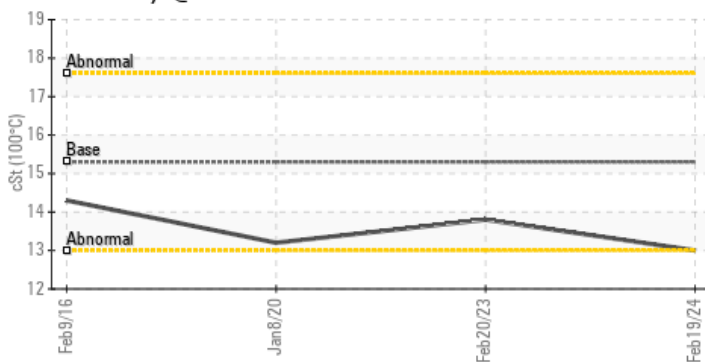
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Soot %

