



# CONSTRUCTION EQUIPMENT

## 701295 PRIMORIS VOLVO A40G 352509 - BRAKE COOLING SYSTEM



**Sample No:** VCP440130  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 701295 PRIMORIS



### SAMPLE INFORMATION

Sample Number	VCP440130	VCP440615	VCP420245	VCP365220
Sample Date	12 Apr 2024	16 Nov 2023	25 May 2023	16 Aug 2022
Machine Hours	6123	5500	4282	3145
Oil Hours	2000	1500	4282	500
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	41.9	41.2	39.9	39.3
		41.9	41.2	39.9	39.3



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	17	18	18	19
Sodium	ppm	7	2	7	10
Potassium	ppm	0	2	2	2



### WEAR METALS

Iron	ppm	22	28	20	17
Copper	ppm	207	221	314	274
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	2	<1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	5	5	7	6
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	2	<1	1	1
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	3465	3409	3399	3496
Magnesium	ppm	14	10	7	7
Zinc	ppm	1525	1468	1423	1500
Phosphorus	ppm	1273	1388	1277	1269
Barium	ppm	0	3	0	0
Boron	ppm	115	123	111	109

### Diagnosis

The fluid change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** VOLVO0093  
**Unique No:** 11047533  
**Signed:** Sean Felton  
**Report Date:** 29 May 2024

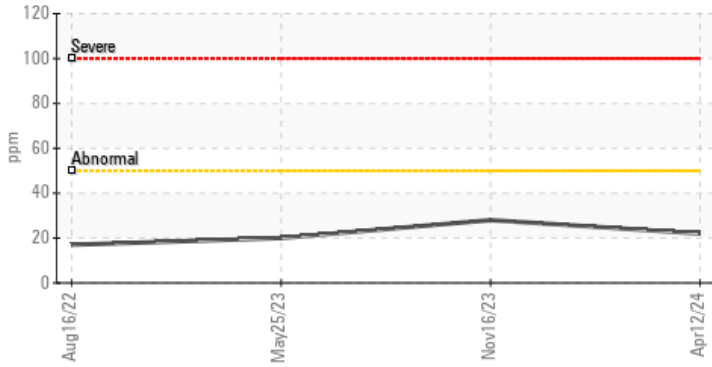


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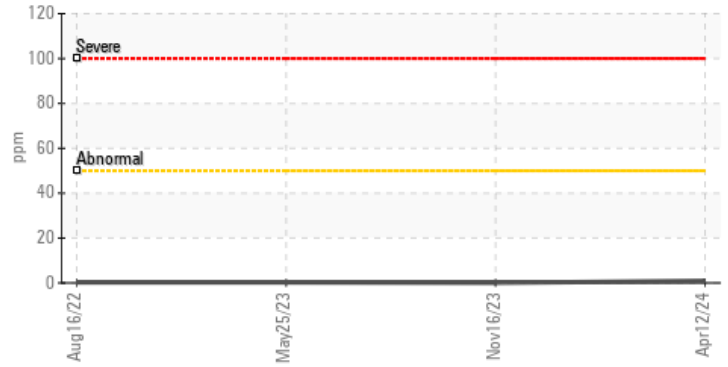


## GRAPHS

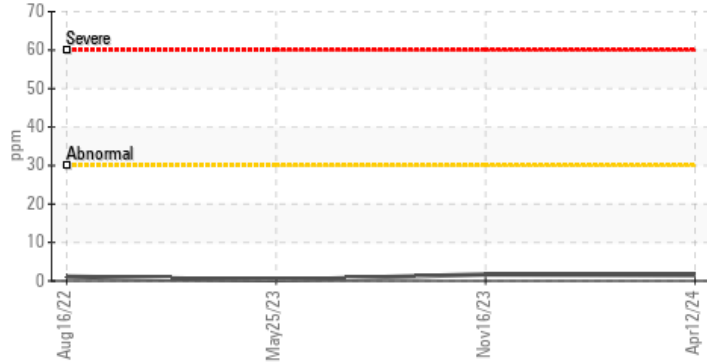
### Iron (ppm)



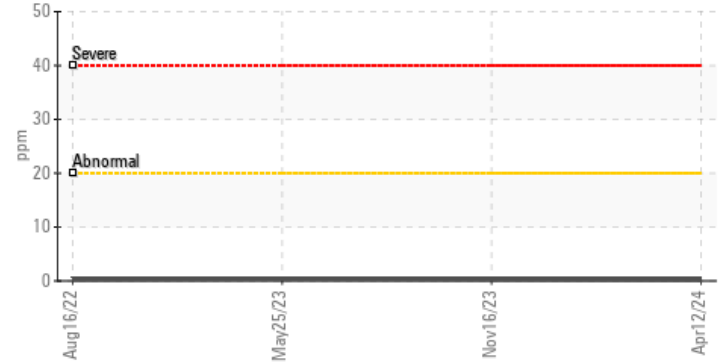
### Lead (ppm)



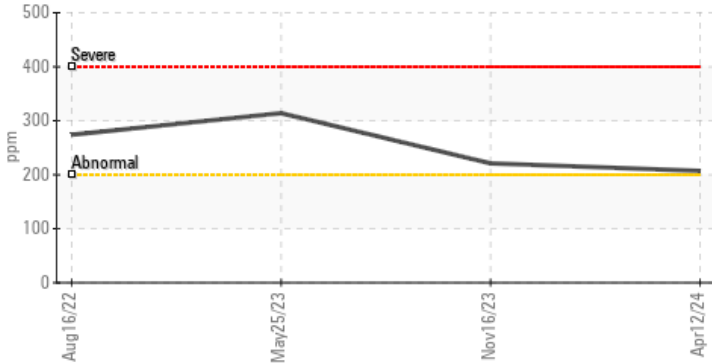
### Aluminum (ppm)



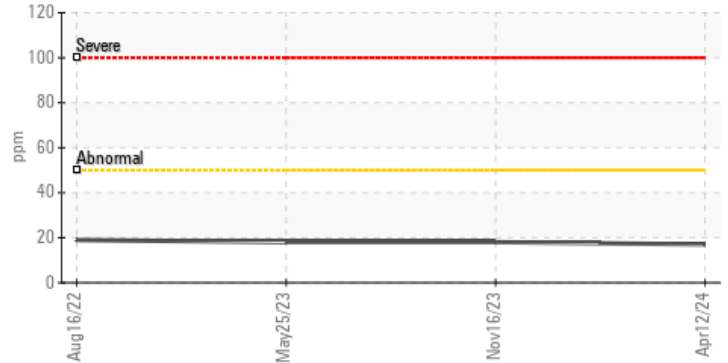
### Chromium (ppm)



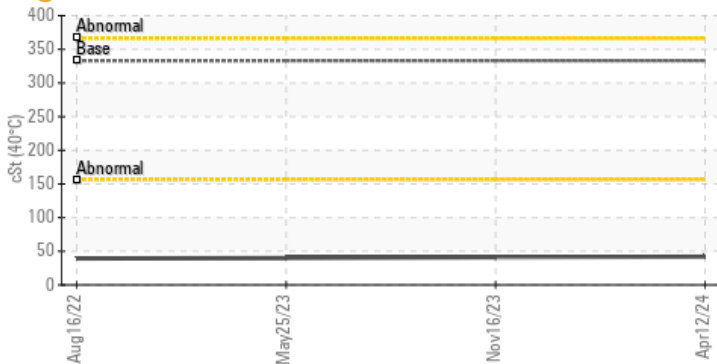
### ▲ Copper (ppm)



### Silicon (ppm)



### ● Viscosity @ 40°C



### ● Additives

