



CONSTRUCTION EQUIPMENT

SWA427646-10 VOLVO A45G 752037 - DIESEL ENGINE



Sample No: VCP408589
Oil Type: NOT GIVEN
Job No: SWA427646-10



SAMPLE INFORMATION

Sample Number	VCP408589	---	---	---
Sample Date	06 Dec 2023	---	---	---
Machine Hours	559	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	11.0	---	---	---
Base Number (BN)	mg KOH/g	4.9	---	---	---
Oxidation (PA)	%	55	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.2	---	---	---
Nitration (PA)	%	76	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	0.3	---	---	---
Silicon	ppm	29	---	---	---
Sodium	ppm	5	---	---	---
Potassium	ppm	2	---	---	---



WEAR METALS

Iron	ppm	32	---	---	---
Copper	ppm	509	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	3	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	99	---	---	---
Nickel	ppm	3	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2354	---	---	---
Magnesium	ppm	13	---	---	---
Zinc	ppm	1307	---	---	---
Phosphorus	ppm	1092	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	57	---	---	---

Depot: VOLVO0090
Unique No: 10780114
Signed: Jonathan Hester
Report Date: 18 Dec 2023

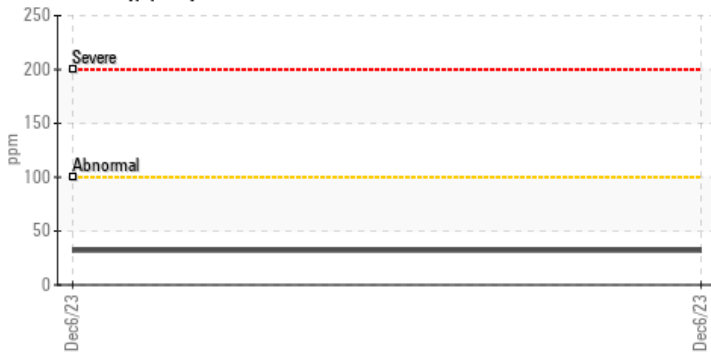


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GRAPHS

Iron (ppm)



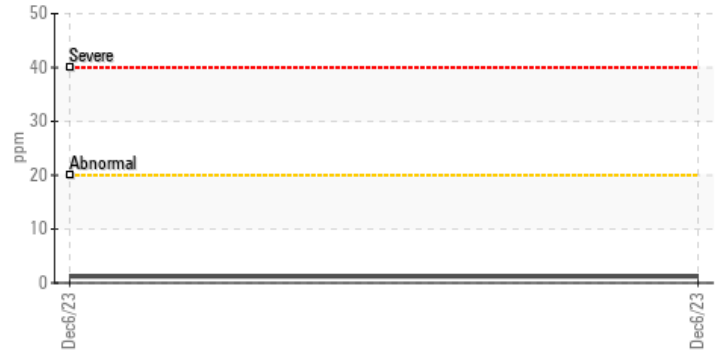
Lead (ppm)



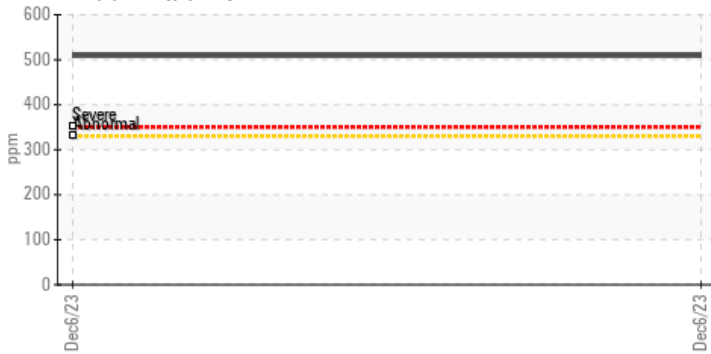
Aluminum (ppm)



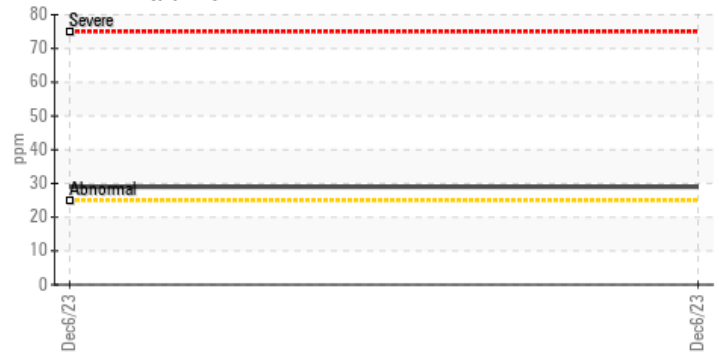
Chromium (ppm)



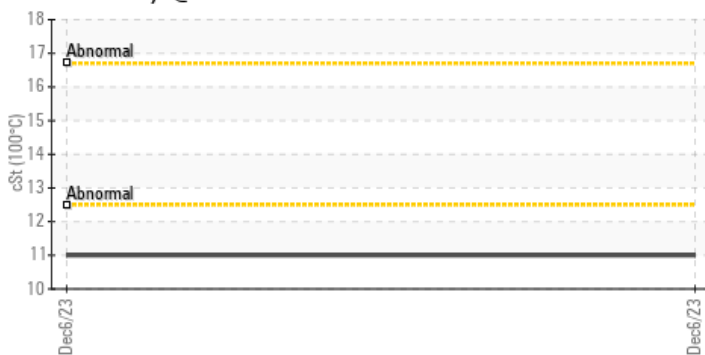
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

