



CONSTRUCTION EQUIPMENT

VOLVO A45G 353251 - WET DISC BRAKE



Sample No: VCP454378
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No:



SAMPLE INFORMATION

Sample Number	VCP454378	VCP436597	VCP421334	---
Sample Date	04 May 2024	25 Jan 2024	20 Jul 2023	---
Machine Hours	3988	3274	2242	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	40.7	40.7	40.7	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	19	19	19	---
Sodium	ppm	9	11	11	---
Potassium	ppm	2	1	0	---

Diagnosis
 No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. The iron level is abnormal. 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	47	40	29	---
Copper	ppm	296	265	179	---
Lead	ppm	<1	<1	2	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	2	<1	<1	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	<1	0	0	---
Nickel	ppm	7	6	6	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	2	2	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	3368	3472	3626	---
Magnesium	ppm	8	11	7	---
Zinc	ppm	1499	1564	1592	---
Phosphorus	ppm	1374	1344	1311	---
Barium	ppm	0	0	0	---
Boron	ppm	131	132	158	---

Depot: VOLVO0090
Unique No: 11017758
Signed: Don Baldrige
Report Date: 09 May 2024

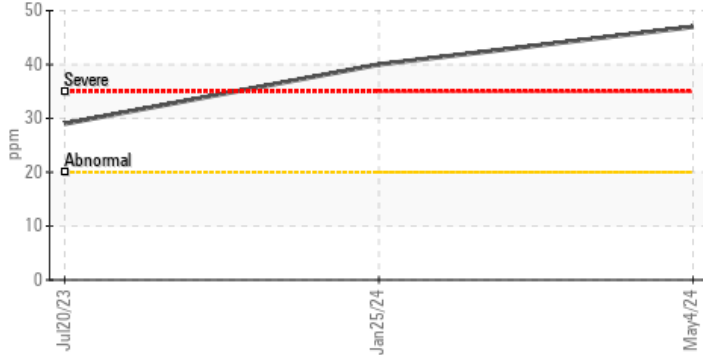


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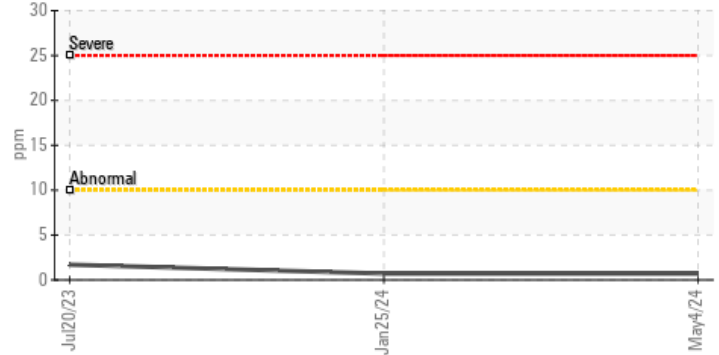


GRAPHS

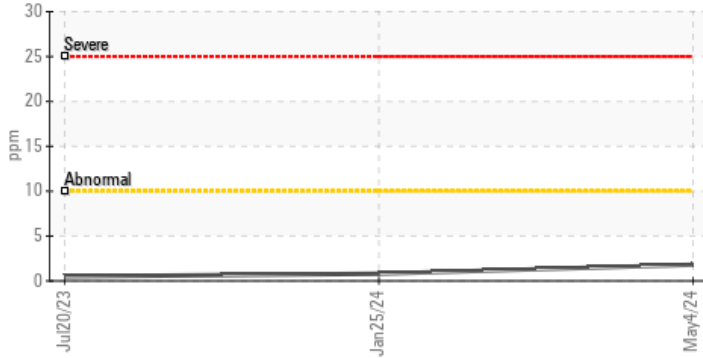
▲ Iron (ppm)



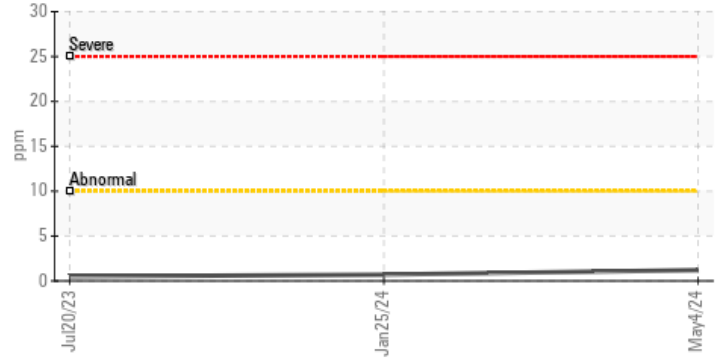
Lead (ppm)



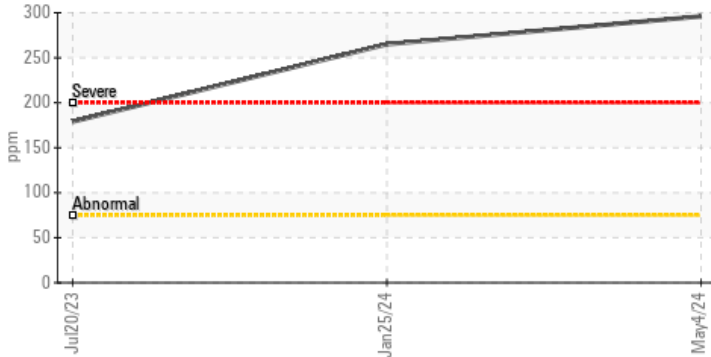
Aluminum (ppm)



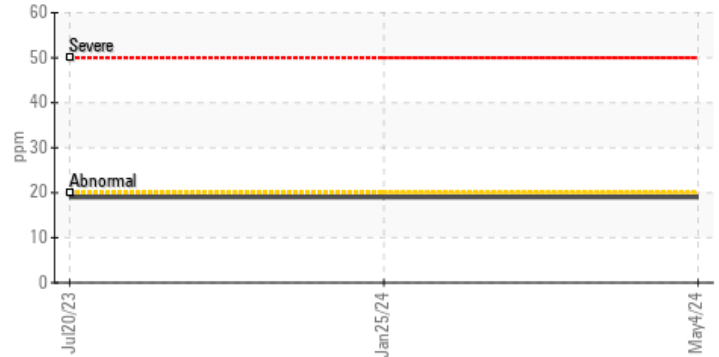
Chromium (ppm)



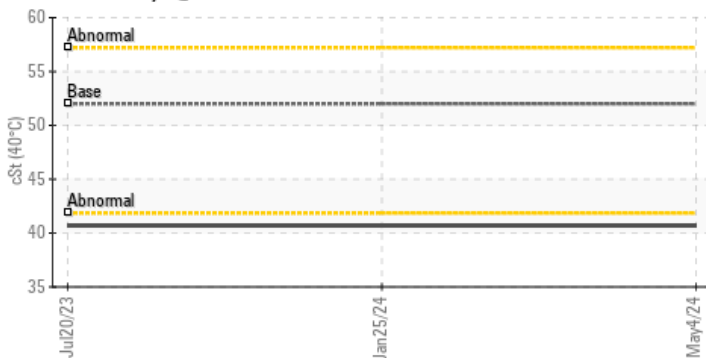
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

