



CONSTRUCTION EQUIPMENT

SWA497592 ALTER PEOR SENNEBOGEN 835M 835.0.2632 - DIESEL ENGINE



Sample No: VCP431483
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA497592 ALTER PEOR



SAMPLE INFORMATION

Sample Number	VCP431483	VCP396360	VCP363691	---
Sample Date	15 Mar 2024	17 Oct 2023	25 Oct 2022	---
Machine Hours	9526	8583	6250	---
Oil Hours	1000	2000	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

ALTA EQUIPMENT COMPANY

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 US 61705

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OIL CONDITION

Visc @ 100°C	cSt	12.6	13.1	13.2	---
Base Number (BN)	mg KOH/g	5.3	6.9	7.5	---
Oxidation (PA)	%	123	122	104	---

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 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	NEG	NEG	---
Soot %	%	0.3	0.3	0.3	---
Nitration (PA)	%	96	99	103	---
Sulfation (PA)	%	75	72	72	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	3	5	5	---
Sodium	ppm	2	2	1	---
Potassium	ppm	1	6	6	---



WEAR METALS

Iron	ppm	18	21	26	---
Copper	ppm	<1	<1	2	---
Lead	ppm	<1	0	0	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	2	2	4	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	49	54	69	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	2	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1243	1768	1328	---
Magnesium	ppm	733	586	895	---
Zinc	ppm	1084	1239	1363	---
Phosphorus	ppm	960	960	1066	---
Barium	ppm	0	0	0	---
Boron	ppm	3	26	7	---

Depot: VOLVO5054
Unique No: 10968732
Signed: Jonathan Hester
Report Date: 12 Apr 2024

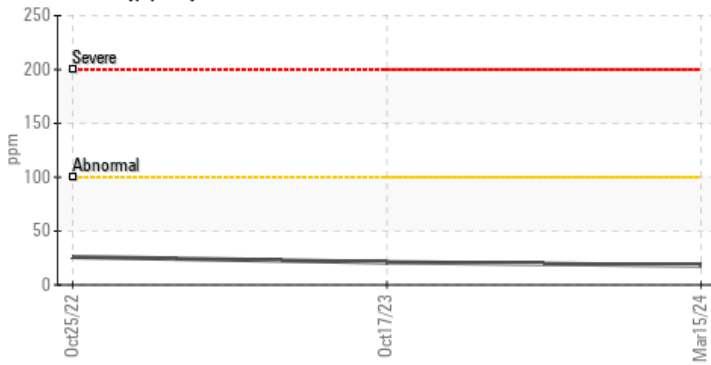


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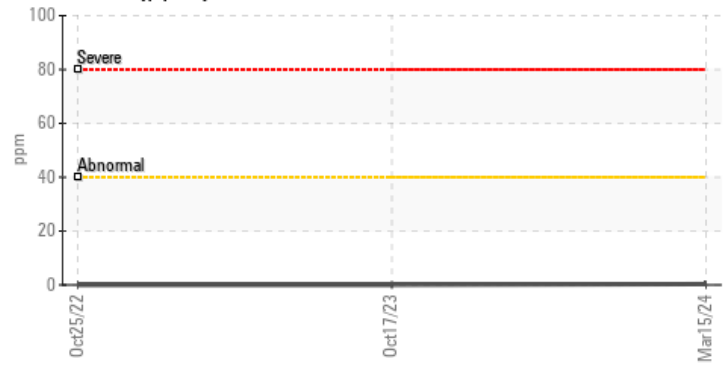


GRAPHS

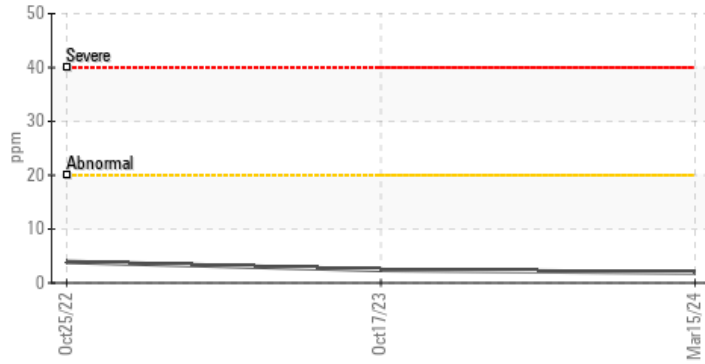
Iron (ppm)



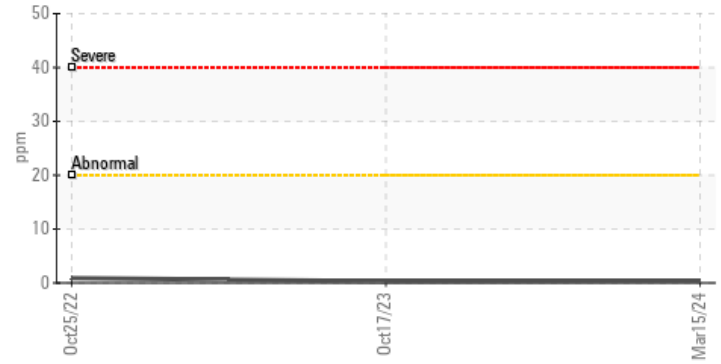
Lead (ppm)



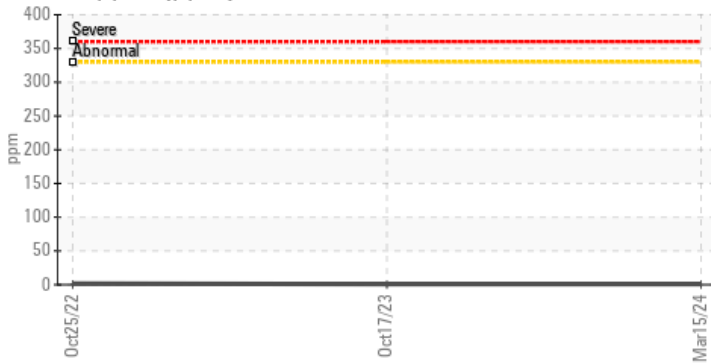
Aluminum (ppm)



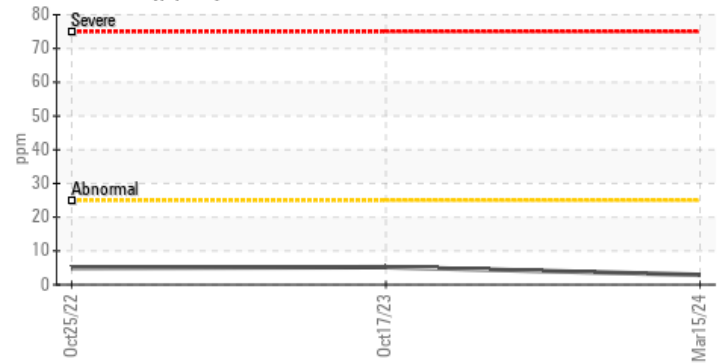
Chromium (ppm)



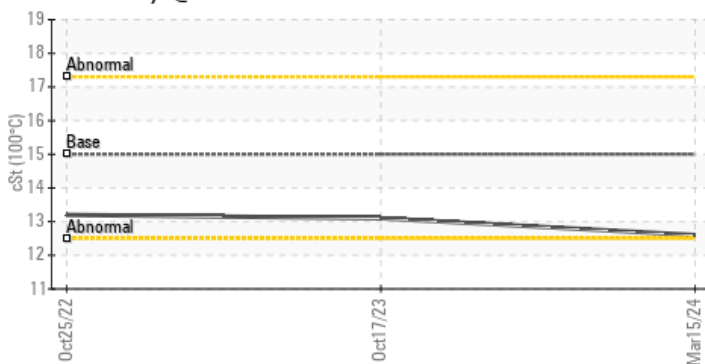
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

