



CONSTRUCTION EQUIPMENT

SWA563649 TERRAMAC RT14R 14RH00107 - DIESEL ENGINE



Sample No: VCP435737
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA563649



SAMPLE INFORMATION

Sample Number	VCP435737	VCP435076	VCP395470	---
Sample Date	24 May 2024	11 Oct 2023	17 Jul 2023	---
Machine Hours	2703	2555	4312	---
Oil Hours	0	500	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.3	12.4	---
Base Number (BN)	mg KOH/g	9.9	10.0	10.4	---
Oxidation (PA)	%	80	80	75	---

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 %	%	0.2	0.1	0.1	---
Nitration (PA)	%	55	53	52	---
Sulfation (PA)	%	60	61	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.6	---
Silicon	ppm	5	5	5	---
Sodium	ppm	2	2	1	---
Potassium	ppm	0	<1	0	---



WEAR METALS

Iron	ppm	9	8	12	---
Copper	ppm	1	3	7	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	2	2	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	45	50	50	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	<1	<1	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1657	1646	1818	---
Magnesium	ppm	527	503	568	---
Zinc	ppm	1155	1106	1203	---
Phosphorus	ppm	1013	801	1009	---
Barium	ppm	0	0	<1	---
Boron	ppm	52	46	70	---

Depot: VOLVO0142
Unique No: 11058303
Signed: Wes Davis
Report Date: 03 Jun 2024

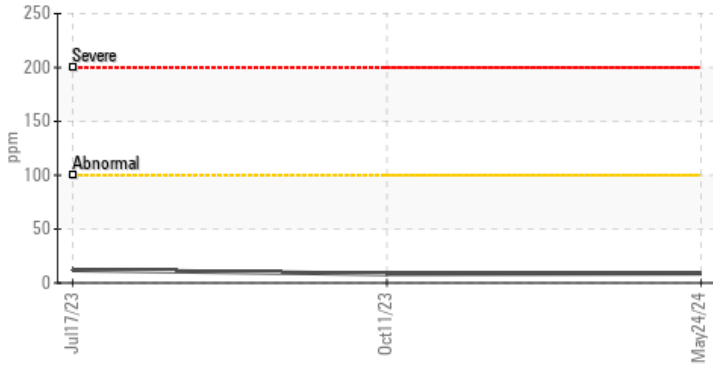


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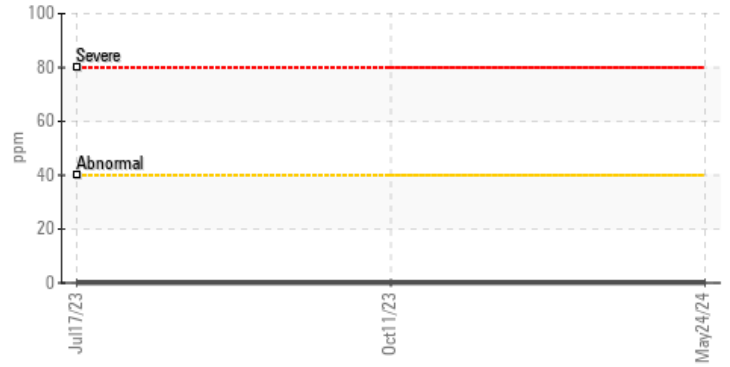


GRAPHS

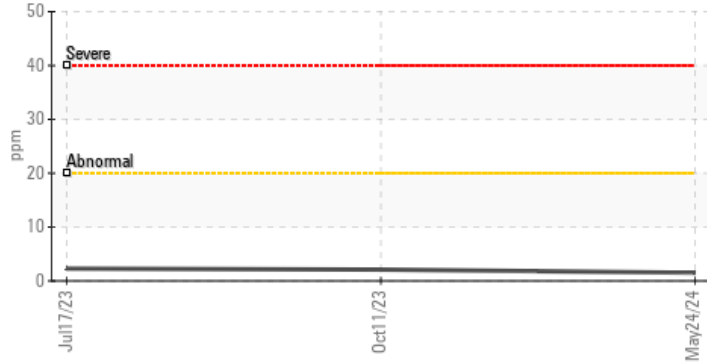
Iron (ppm)



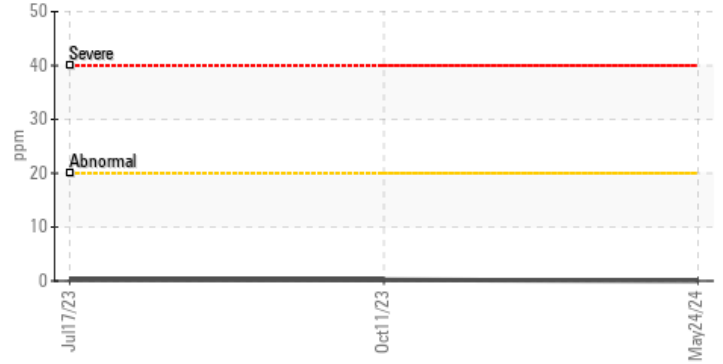
Lead (ppm)



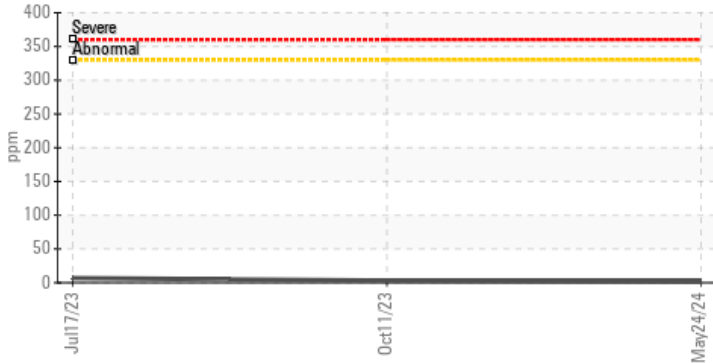
Aluminum (ppm)



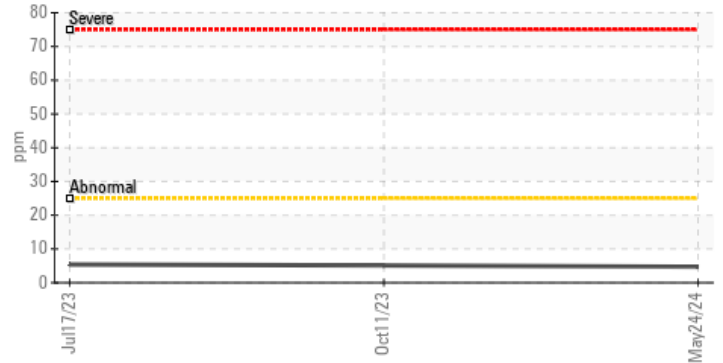
Chromium (ppm)



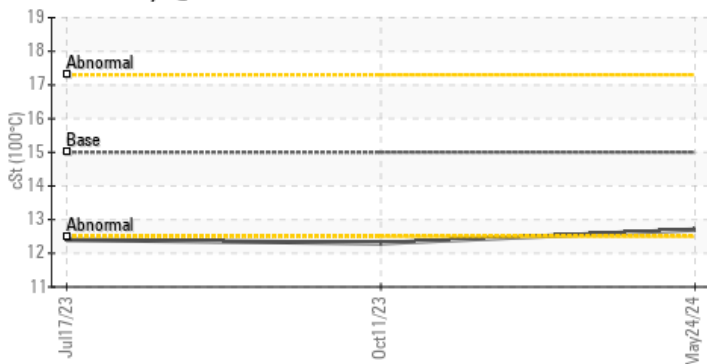
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

