



CONSTRUCTION EQUIPMENT

SW-28423-2 GT UNDERG VOLVO L60H 62226 - DIESEL ENGINE



Sample No: VCP435895
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-28423-2 GT UNDERG



SAMPLE INFORMATION

Sample Number	VCP435895	VCP319299	---	---
Sample Date	09 Jan 2024	24 Mar 2022	---	---
Machine Hours	963	453	---	---
Oil Hours	500	453	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	---	---
Base Number (BN)	mg KOH/g	9.8	9.8	---	---
Oxidation (PA)	%	74	64	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	---	---
Soot %	%	0.5	0.4	---	---
Nitration (PA)	%	63	70	---	---
Sulfation (PA)	%	59	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	10	19	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	0	<1	---	---



WEAR METALS

Iron	ppm	23	33	---	---
Copper	ppm	3	9	---	---
Lead	ppm	0	2	---	---
Tin	ppm	1	2	---	---
Aluminum	ppm	12	13	---	---
Chromium	ppm	1	2	---	---
Molybdenum	ppm	41	20	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	4	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1505	1386	---	---
Magnesium	ppm	564	663	---	---
Zinc	ppm	1037	863	---	---
Phosphorus	ppm	903	817	---	---
Barium	ppm	0	0	---	---
Boron	ppm	37	61	---	---

Depot: VOLVO8770
Unique No: 10845919
Signed: Wes Davis
Report Date: 24 Jan 2024



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GRAPHS

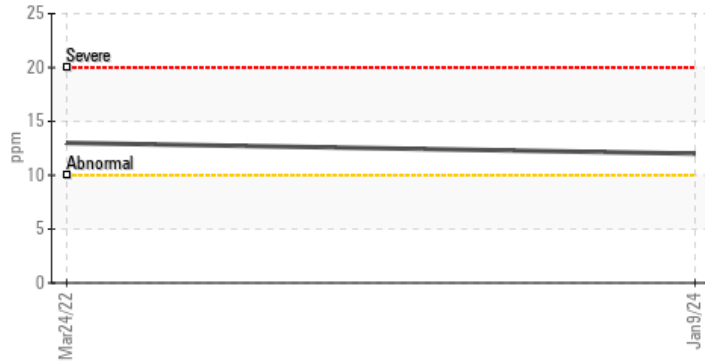
Iron (ppm)



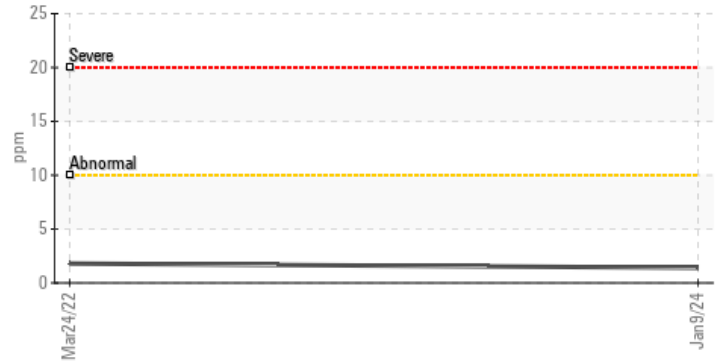
Lead (ppm)



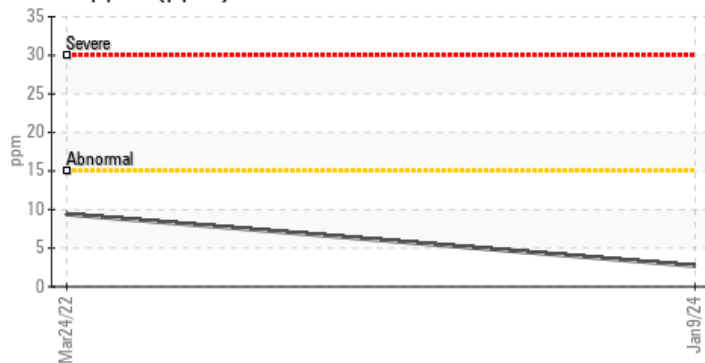
Aluminum (ppm)



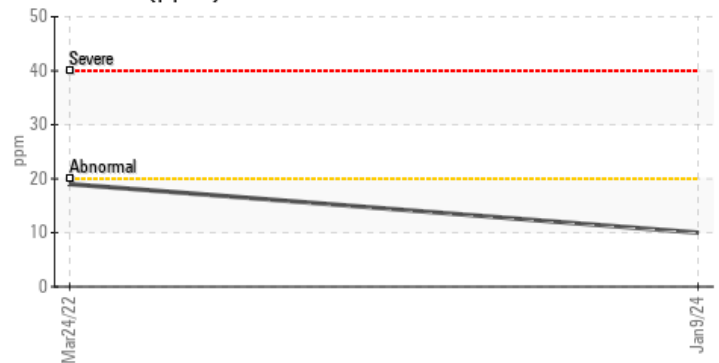
Chromium (ppm)



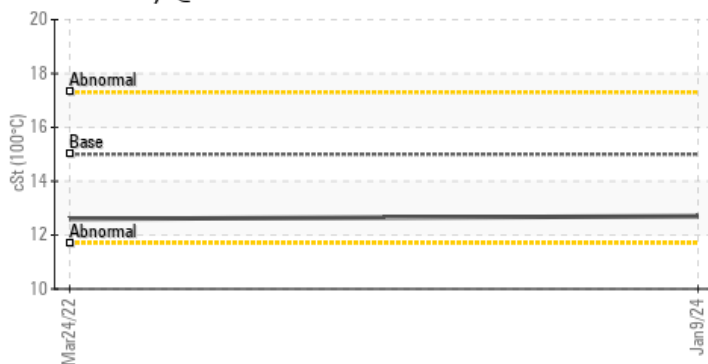
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

