



CONSTRUCTION EQUIPMENT

SPM660661-10 VOLVO EC200 314412 - DIESEL ENGINE



Sample No: VCP431846
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM660661-10



SAMPLE INFORMATION

Sample Number	VCP431846	VCP376216	---	---
Sample Date	03 Feb 2024	04 Aug 2022	---	---
Machine Hours	2089	974	---	---
Oil Hours	0	1500	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	▲ 11.4	---	---
Base Number (BN)	mg KOH/g	7.4	■ 8.0	---	---
Oxidation (PA)	%	57	45	---	---

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	---	---
Soot %	%	0.2	■ 0.2	---	---
Nitration (PA)	%	51	62	---	---
Sulfation (PA)	%	56	50	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.4	---	---
Silicon	ppm	6	■ 5	---	---
Sodium	ppm	<1	■ 0	---	---
Potassium	ppm	<1	■ 9	---	---



WEAR METALS

Iron	ppm	17	■ 17	---	---
Copper	ppm	2	■ 2	---	---
Lead	ppm	0	■ <1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	7	■ 5	---	---
Chromium	ppm	<1	■ <1	---	---
Molybdenum	ppm	85	■ 35	---	---
Nickel	ppm	0	■ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	■ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1310	■ 1845	---	---
Magnesium	ppm	392	■ 269	---	---
Zinc	ppm	1198	■ 955	---	---
Phosphorus	ppm	1038	■ 797	---	---
Barium	ppm	<1	■ 2	---	---
Boron	ppm	388	98	---	---

Depot: VOLVO0093
Unique No: 10875359
Signed: Wes Davis
Report Date: 14 Feb 2024



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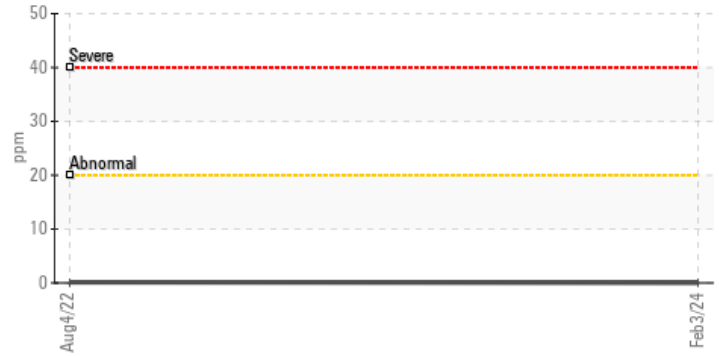


GRAPHS

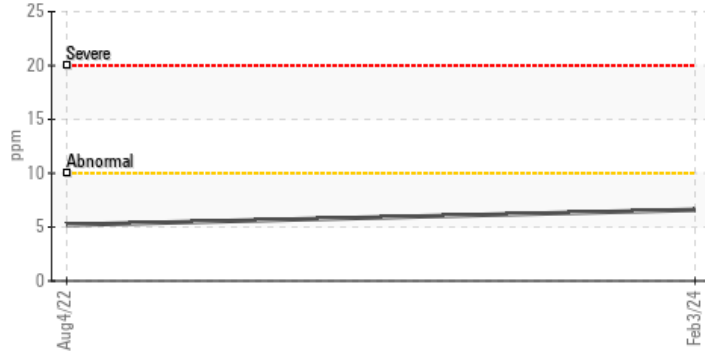
Iron (ppm)



Lead (ppm)



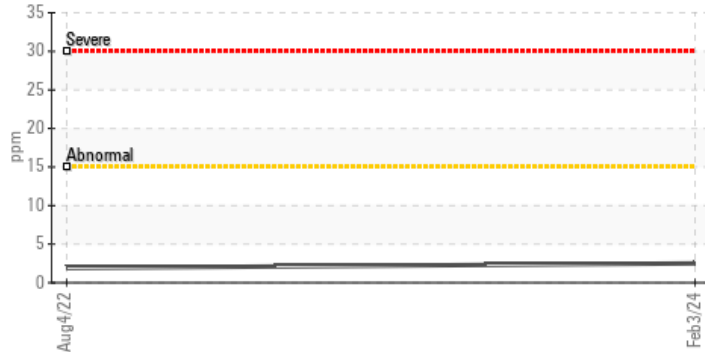
Aluminum (ppm)



Chromium (ppm)



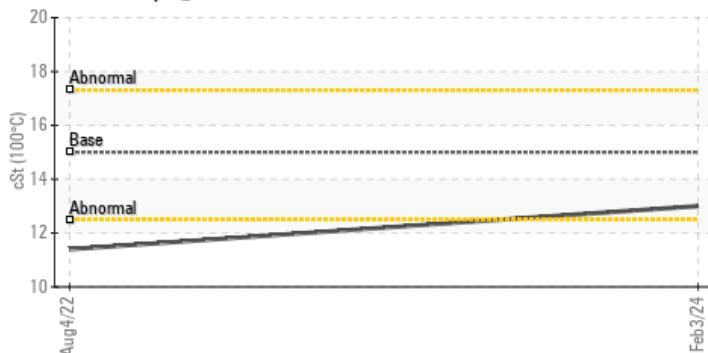
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

