



CONSTRUCTION EQUIPMENT

SPM662084 VOLVO EC160E 314743 - DIESEL ENGINE



Sample No: VCP435689
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SPM662084



SAMPLE INFORMATION

Sample Number	VCP435689	---	---	---
Sample Date	05 Feb 2024	---	---	---
Machine Hours	521	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: DAVE ENG
DAVE.ENG@ALTG.COM
T: (312)350-2560
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 6.8	---	---	---
Oxidation (PA)	%	46	---	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 24	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 31	---	---	---
Copper	ppm	█ 13	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	█ 14	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 20	---	---	---
Nickel	ppm	█ 6	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 2051	---	---	---
Magnesium	ppm	█ 73	---	---	---
Zinc	ppm	█ 1067	---	---	---
Phosphorus	ppm	█ 827	---	---	---
Barium	ppm	█ 12	---	---	---
Boron	ppm	█ 14	---	---	---

Depot: VOLVO8885
Unique No: 10882798
Signed: Wes Davis
Report Date: 16 Feb 2024

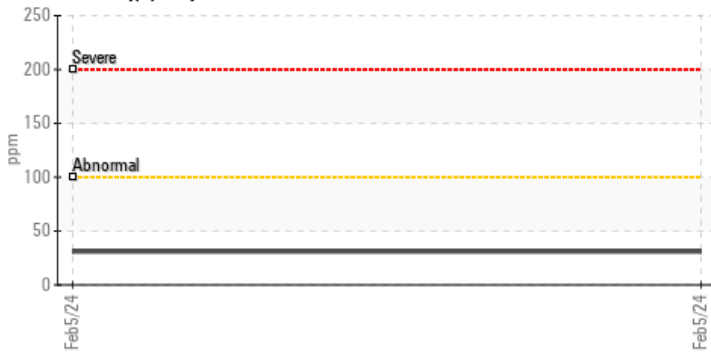


CONSTRUCTION EQUIPMENT



GRAPHS

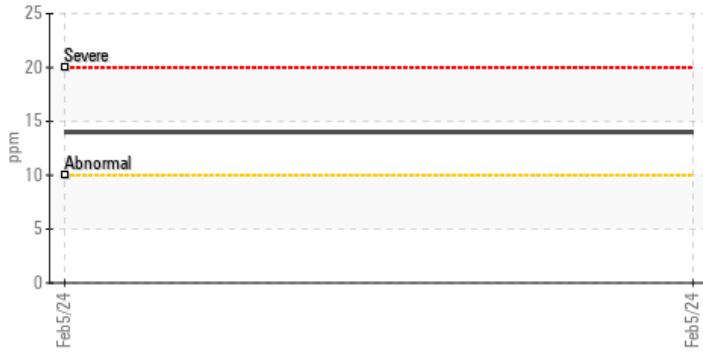
Iron (ppm)



Lead (ppm)



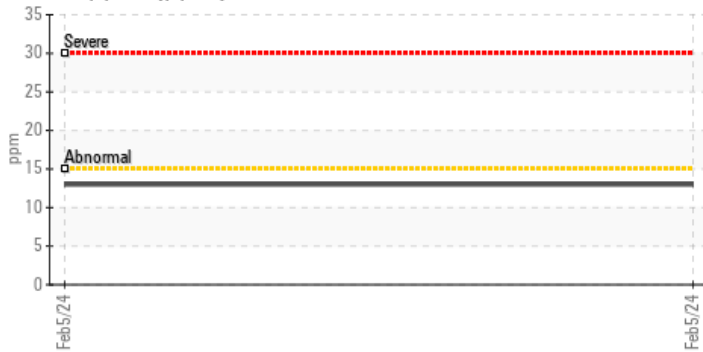
Aluminum (ppm)



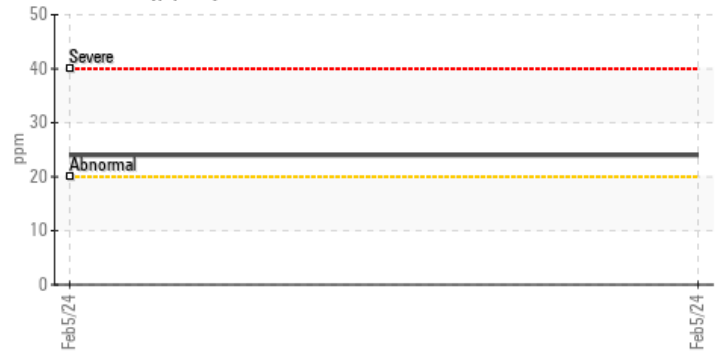
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

