



CONSTRUCTION EQUIPMENT

SW1029278-3 VOLVO EC200EL 314266 - DIESEL ENGINE



Sample No: VCP444487
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1029278-3



SAMPLE INFORMATION

Sample Number	VCP444487	---	---	---
Sample Date	01 Feb 2024	---	---	---
Machine Hours	3492	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ARNOLD MACHINERY COMPANY
2975 WEST 2100 SOUTH
SALT LAKE CITY, UT
US 84119
Contact: TJ LARK
tlark@arnoldmachinery.com
T: (801)972-4000
F: (801)975-9434



OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	---	---	---
Base Number (BN)	mg KOH/g	█ 8.2	---	---	---
Oxidation (PA)	%	60	---	---	---

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	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	71	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 85	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1682	---	---	---
Magnesium	ppm	█ 415	---	---	---
Zinc	ppm	█ 1172	---	---	---
Phosphorus	ppm	█ 1007	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 123	---	---	---

Depot: VOLVO8770
Unique No: 10873268
Signed: Wes Davis
Report Date: 13 Feb 2024



CONSTRUCTION EQUIPMENT



GRAPHS

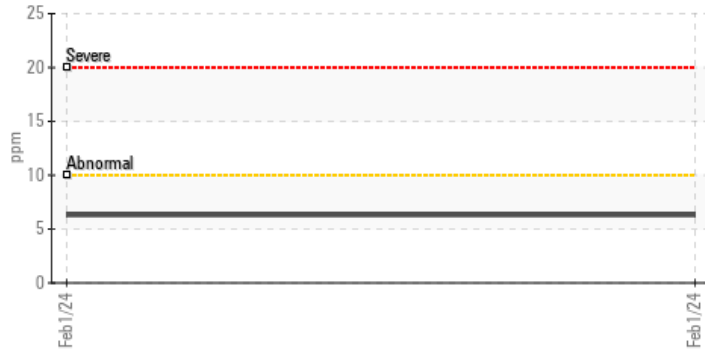
Iron (ppm)



Lead (ppm)



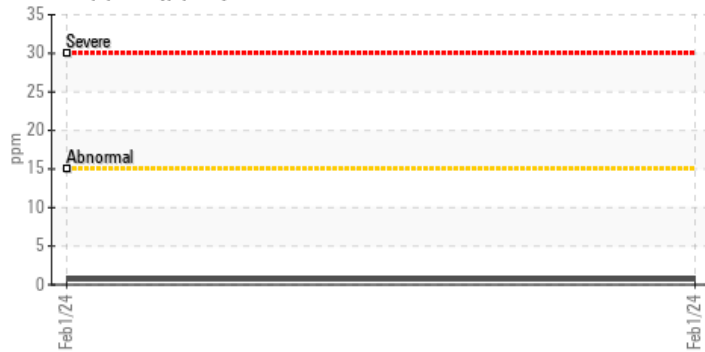
Aluminum (ppm)



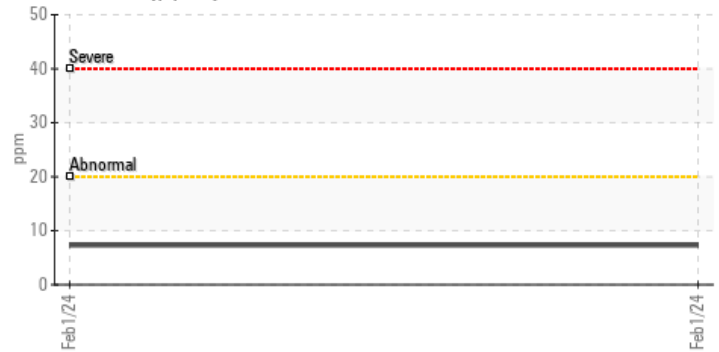
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

