



CONSTRUCTION EQUIPMENT

9339 VOLVO A25F 80082 - DIESEL ENGINE



Sample No: VCP413948
Oil Type: NOT GIVEN
Job No: 9339



SAMPLE INFORMATION

Sample Number	VCP413948	---	---	---
Sample Date	09 Aug 2023	---	---	---
Machine Hours	7668	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.5	---	---	---
Base Number (BN)	mg KOH/g	■ 7.9	---	---	---
Oxidation (PA)	%	■ 56	---	---	---



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 68	---	---	---
Sulfation (PA)	%	■ 49	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	● 8.4	---	---	---
Silicon	ppm	▲ 22	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 1	---	---	---



WEAR METALS

Iron	ppm	■ 19	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	▲ 6	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 51	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1082	---	---	---
Magnesium	ppm	■ 942	---	---	---
Zinc	ppm	■ 1188	---	---	---
Phosphorus	ppm	■ 971	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 70	---	---	---

Diagnosis

We advise that you check the fuel injection system. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VOLV00150
Unique No: 10603846
Signed: Jonathan Hester
Report Date: 16 Aug 2023



CONSTRUCTION EQUIPMENT

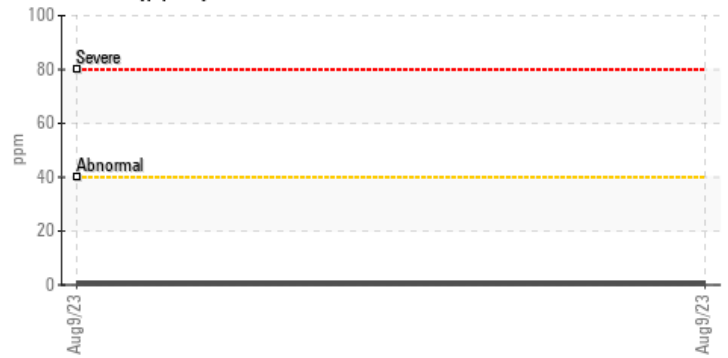


GRAPHS

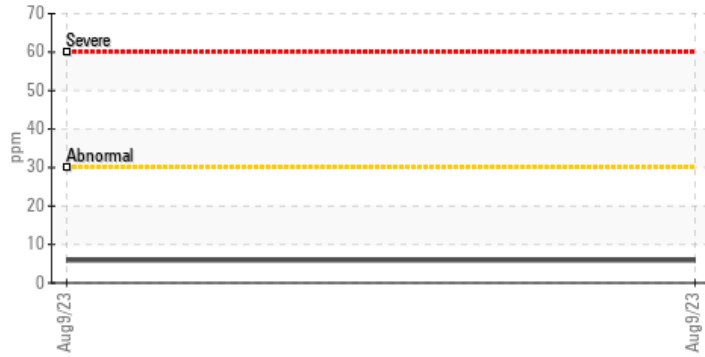
Iron (ppm)



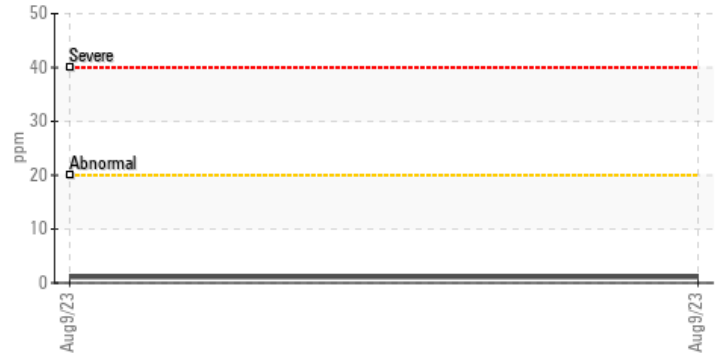
Lead (ppm)



Aluminum (ppm)



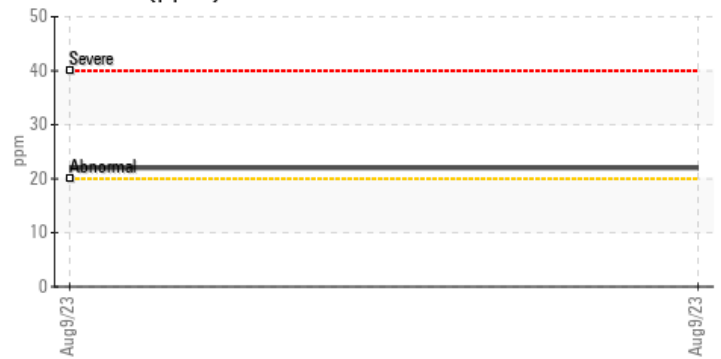
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

