



CONSTRUCTION EQUIPMENT

23783 VOLVO A25 80162 - DIESEL ENGINE



Sample No: VCP424786
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23783



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
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SAMPLE INFORMATION

Sample Number	VCP424786	---	---	---
Sample Date	24 Jul 2023	---	---	---
Machine Hours	3900	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	▲ 10.5	---	---	---
Base Number (BN)	mg KOH/g	■ 6.3	---	---	---
Oxidation (PA)	%	67	---	---	---



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	75	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	● 8.5	---	---	---
Silicon	ppm	■ 17	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ <1	---	---	---



WEAR METALS

Iron	ppm	■ 38	---	---	---
Copper	ppm	■ 17	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 11	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	106	---	---	---
Nickel	ppm	■ 7	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1414	---	---	---
Magnesium	ppm	■ 560	---	---	---
Zinc	ppm	■ 997	---	---	---
Phosphorus	ppm	■ 801	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	288	---	---	---

Diagnosis

We advise that you check the fuel injection system. The oil 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. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO3387
Unique No: 10577361
Signed: Wes Davis
Report Date: 01 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

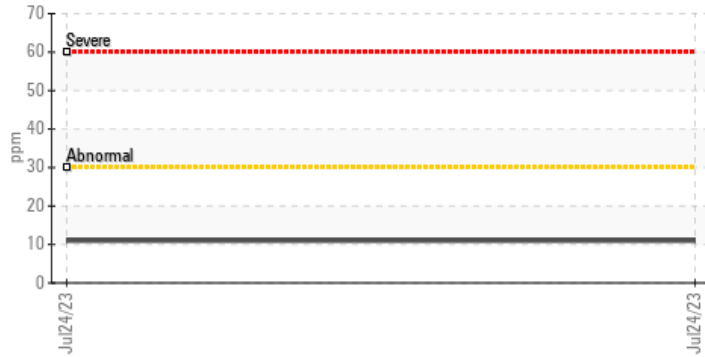
Iron (ppm)



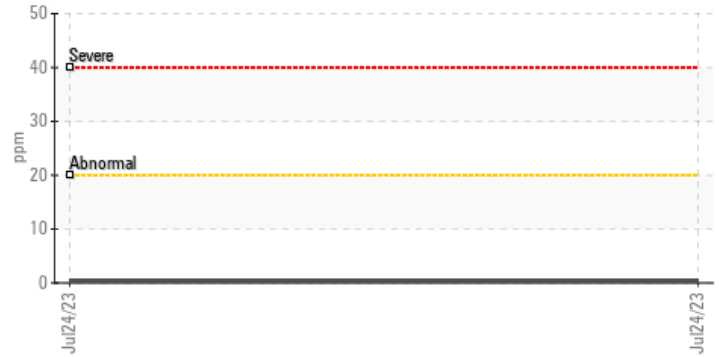
Lead (ppm)



Aluminum (ppm)



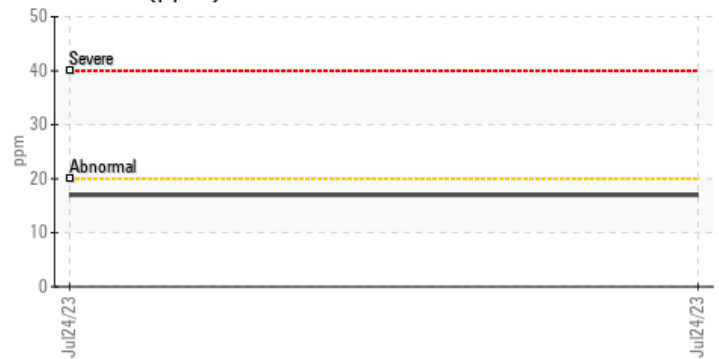
Chromium (ppm)



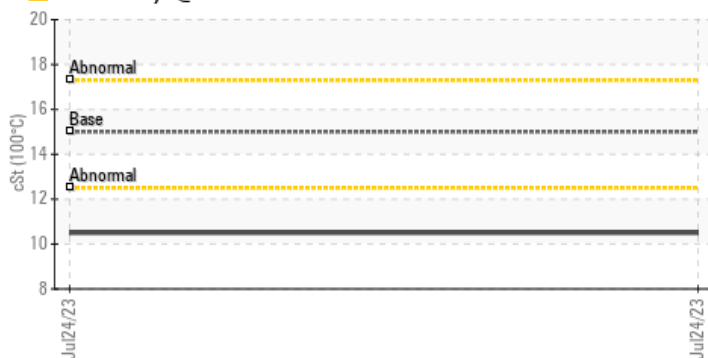
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

