



CONSTRUCTION EQUIPMENT

717377 RENTALS YANMAR V1080-7 70628 - DIESEL ENGINE



Sample No: VCP439827
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 717377 RENTALS



SAMPLE INFORMATION

Sample Number	VCP439827	---	---	---
Sample Date	12 Jun 2024	---	---	---
Machine Hours	459	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 10.1	---	---	---
Base Number (BN)	mg KOH/g	■ 6.9	---	---	---
Oxidation (PA)	%	■ 50	---	---	---

Diagnosis

Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Metal levels are typical for a new component breaking in. Fuel content negligible. Sodium and/or potassium levels are high. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	■ NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	■ 66	---	---	---
Sulfation (PA)	%	■ 47	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 1.8	---	---	---
Silicon	ppm	■ 40	---	---	---
Sodium	ppm	■ 14	---	---	---
Potassium	ppm	▲ 172	---	---	---



WEAR METALS

Iron	ppm	■ 26	---	---	---
Copper	ppm	■ 174	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 151	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	■ 0	---	---	---



ADDITIVES

Calcium	ppm	■ 2207	---	---	---
Magnesium	ppm	■ 23	---	---	---
Zinc	ppm	■ 716	---	---	---
Phosphorus	ppm	■ 622	---	---	---
Barium	ppm	■ 5	---	---	---
Boron	ppm	■ 152	---	---	---

Depot: VOLVO0095
Unique No: 11087193
Signed: Sean Felton
Report Date: 21 Jun 2024

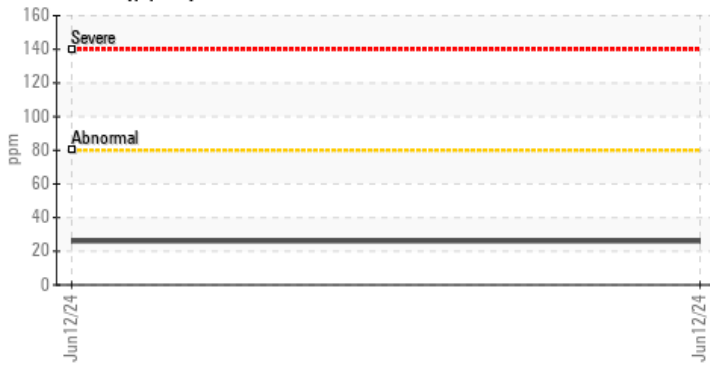


CONSTRUCTION EQUIPMENT



GRAPHS

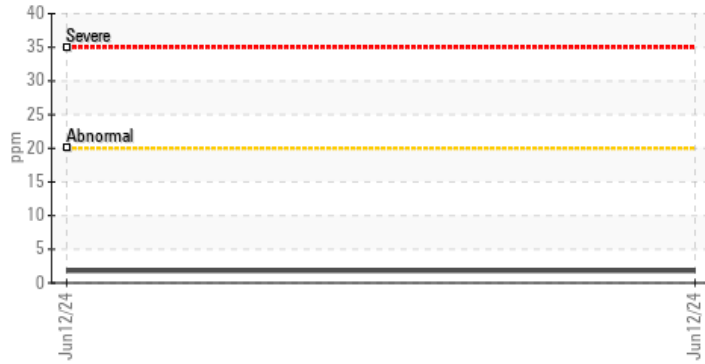
Iron (ppm)



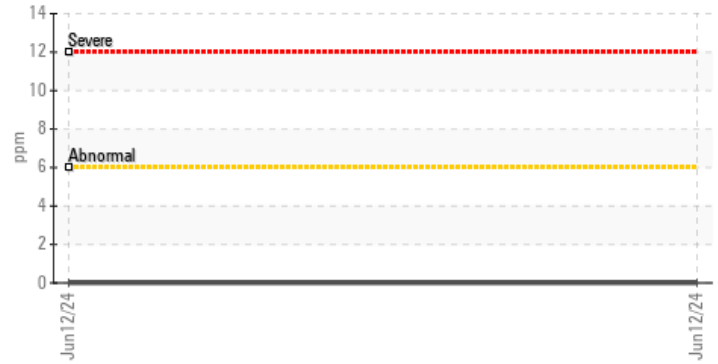
Lead (ppm)



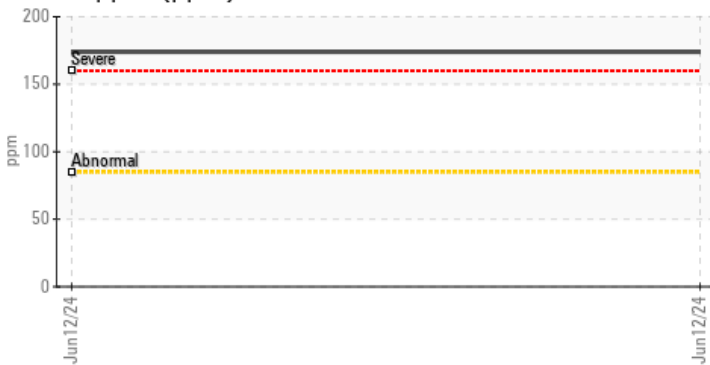
Aluminum (ppm)



Chromium (ppm)



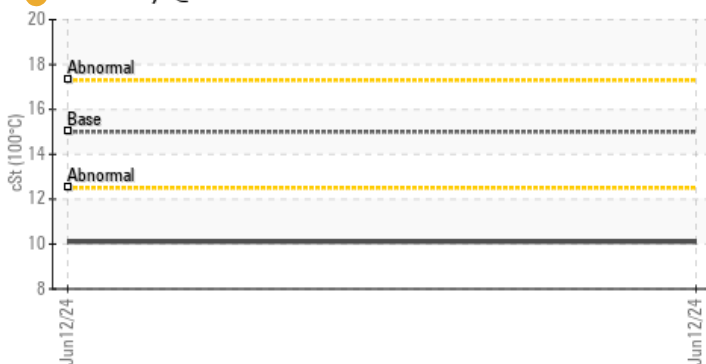
Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

