



CONSTRUCTION EQUIPMENT

INTERNATIONAL 4300 NOT GIVEN VCP438828 (S/N NO OTHER INFO PROVIDED) - DIESEL ENGINE



Sample No: VCP438828
Oil Type: SHELL ROTELLA T4 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP438828	---	---	---
Sample Date	01 Apr 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

ALTA EQUIPMENT COMPANY - METRO WEST
56195 PONTIAC TRAIL
NEW HUDSON, MI
US 48165
Contact: Anders Blomquist
anders.blomquist@volvo.com
T: 4(676)940-9990
F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	---	---	---
Base Number (BN)	mg KOH/g	■ 7.7	---	---	---
Oxidation (PA)	%	76	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.7	---	---	---
Nitration (PA)	%	82	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.3	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	■ 78	---	---	---
Copper	ppm	■ 6	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 11	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 57	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1317	---	---	---
Magnesium	ppm	■ 881	---	---	---
Zinc	ppm	■ 1303	---	---	---
Phosphorus	ppm	■ 1082	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 8	---	---	---

Depot: VOLVO2990
Unique No: 10963925
Signed: Jonathan Hester
Report Date: 09 Apr 2024

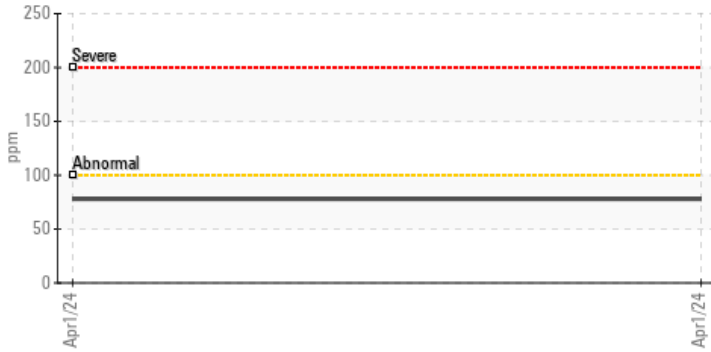


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GRAPHS

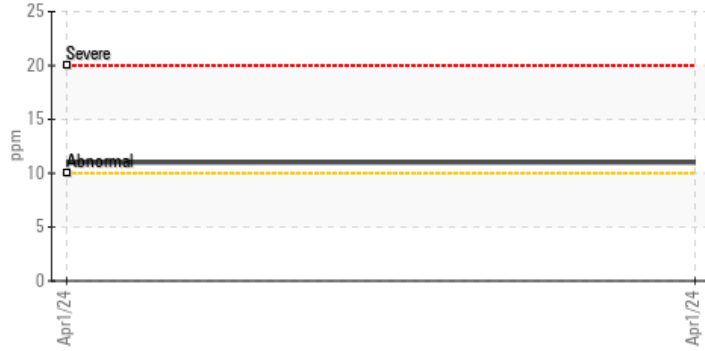
Iron (ppm)



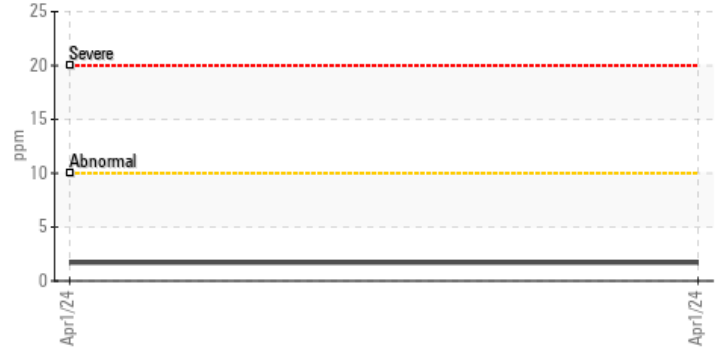
Lead (ppm)



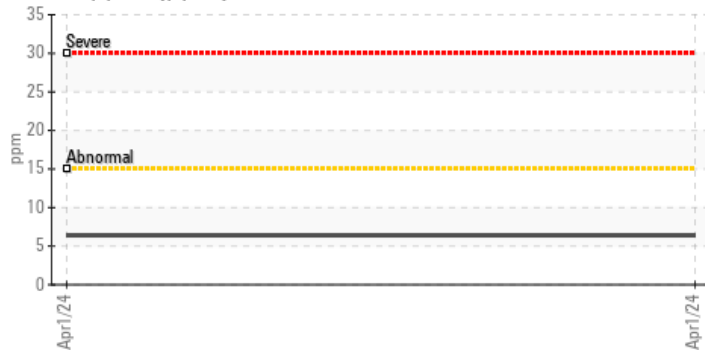
Aluminum (ppm)



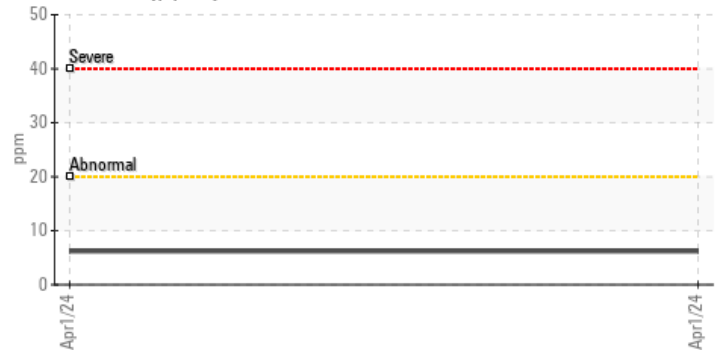
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

