



CONSTRUCTION EQUIPMENT

688984 TOEBE VOLVO A40G 3532 12 - DIESEL ENGINE



Sample No: VCP446981
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 688984 TOEBE



ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
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 T: (313)348-8861
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SAMPLE INFORMATION

Sample Number	VCP446981	---	---	---
Sample Date	11 Apr 2024	---	---	---
Machine Hours	1631	---	---	---
Oil Hours	500	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.4	---	---	---
Base Number (BN)	mg KOH/g	8.3	---	---	---
Oxidation (PA)	%	64	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.2	---	---	---
Nitration (PA)	%	66	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	5	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	3	---	---	---



WEAR METALS

Iron	ppm	9	---	---	---
Copper	ppm	33	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	48	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	1162	---	---	---
Magnesium	ppm	752	---	---	---
Zinc	ppm	1057	---	---	---
Phosphorus	ppm	913	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	12	---	---	---

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.

Depot: VOLVO2990
Unique No: 10981650
Signed: Jonathan Hester
Report Date: 19 Apr 2024



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GRAPHS

Iron (ppm)



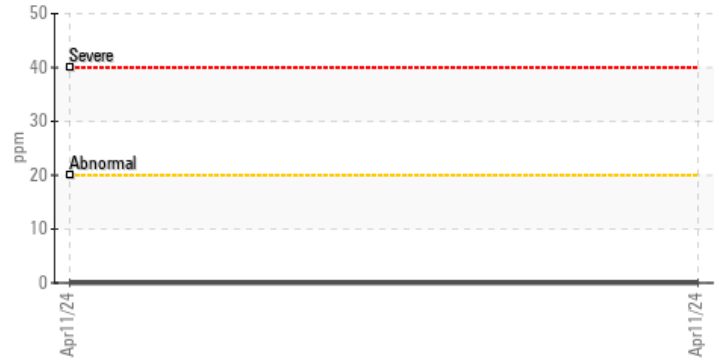
Lead (ppm)



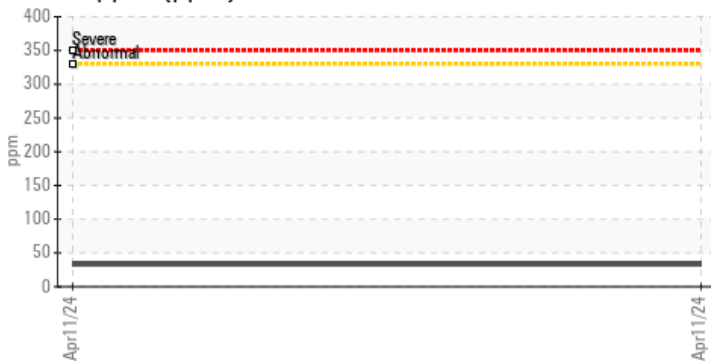
Aluminum (ppm)



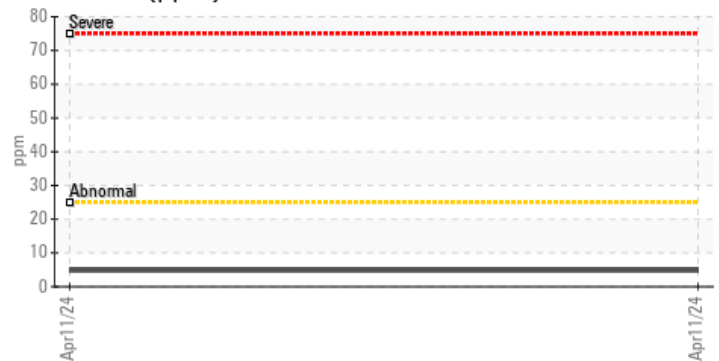
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

