



CONSTRUCTION EQUIPMENT

579849 ALTA RENTS TAKEUCHI TB2502 125103547 - DIESEL ENGINE



Sample No: VCP417702
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 579849 ALTA RENTS



SAMPLE INFORMATION

Sample Number	VCP417702	---	---	---
Sample Date	11 Jul 2023	---	---	---
Machine Hours	272	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.6	---	---	---
Base Number (BN)	mg KOH/g	■ 7.0	---	---	---
Oxidation (PA)	%	52	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.0	---	---	---
Silicon	ppm	■ 44	---	---	---
Sodium	ppm	■ 16	---	---	---
Potassium	ppm	▲ 185	---	---	---



WEAR METALS

Iron	ppm	■ 28	---	---	---
Copper	ppm	■ 25	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ < 1	---	---	---
Molybdenum	ppm	■ 171	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2471	---	---	---
Magnesium	ppm	■ 20	---	---	---
Zinc	ppm	■ 863	---	---	---
Phosphorus	ppm	■ 702	---	---	---
Barium	ppm	■ 6	---	---	---
Boron	ppm	■ 194	---	---	---

Depot: VOLVO0096
Unique No: 10559752
Signed: Jonathan Hester
Report Date: 17 Jul 2023

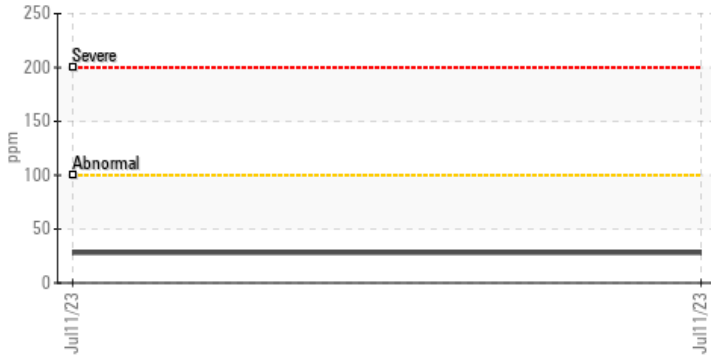


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GRAPHS

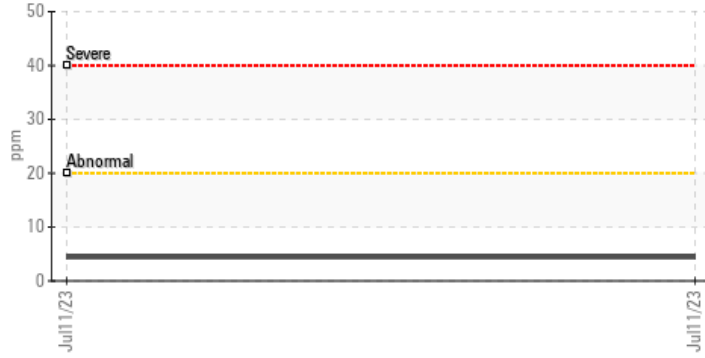
Iron (ppm)



Lead (ppm)



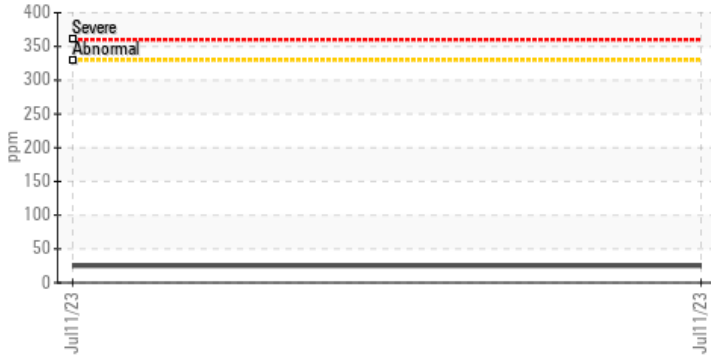
Aluminum (ppm)



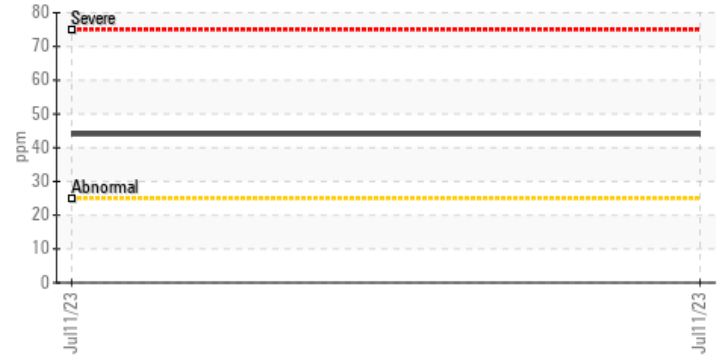
Chromium (ppm)



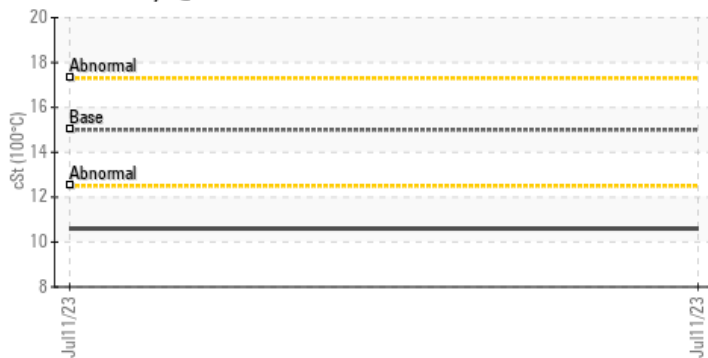
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

