



CONSTRUCTION EQUIPMENT

X49170 TADANO GR550XL-3 542111 - DIESEL ENGINE



Sample No: VCP408347
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X49170



SAMPLE INFORMATION

Sample Number	VCP408347	VCP389055	---	---
Sample Date	21 Jun 2024	22 Feb 2023	---	---
Machine Hours	3587	1166	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	MARGINAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.0	█ 13.6	---	---
Base Number (BN)	mg KOH/g	█ 9.4	█ 5.9	---	---
Oxidation (PA)	%	86	77	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.2	---	---
Nitration (PA)	%	72	83	---	---
Sulfation (PA)	%	60	62	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 2.9	<1.0	---	---
Silicon	ppm	█ 12	▲ 43	---	---
Sodium	ppm	█ 4	█ 8	---	---
Potassium	ppm	█ 6	█ 3	---	---



WEAR METALS

Iron	ppm	█ 11	█ 44	---	---
Copper	ppm	█ 3	█ 147	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 8	● 8	---	---
Chromium	ppm	█ <1	█ 3	---	---
Molybdenum	ppm	█ 38	█ 58	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ 0	█ 7	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1616	█ 1784	---	---
Magnesium	ppm	█ 477	█ 382	---	---
Zinc	ppm	█ 1112	█ 1222	---	---
Phosphorus	ppm	█ 864	█ 906	---	---
Barium	ppm	█ 0	█ 3	---	---
Boron	ppm	█ 33	█ 51	---	---

Depot: VOLVO6244
Unique No: 11098950
Signed: Wes Davis
Report Date: 28 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS

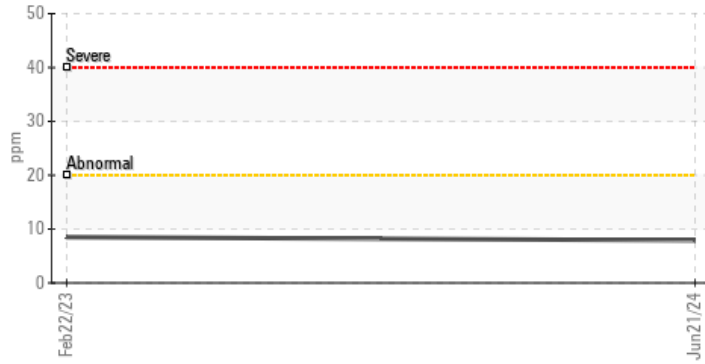
Iron (ppm)



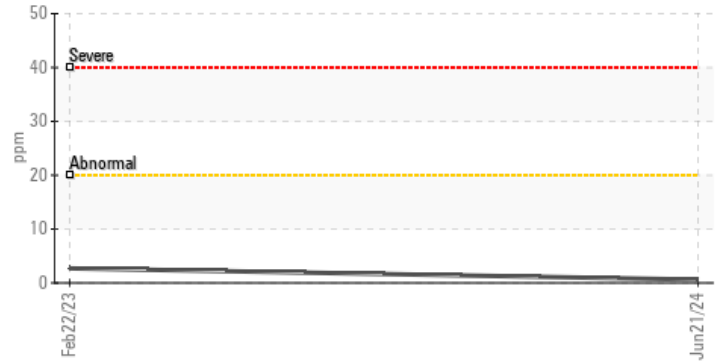
Lead (ppm)



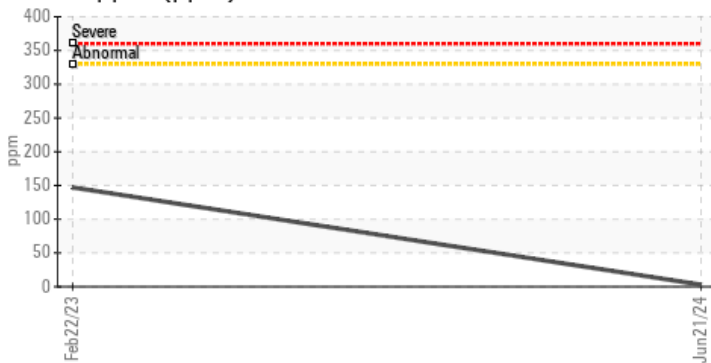
Aluminum (ppm)



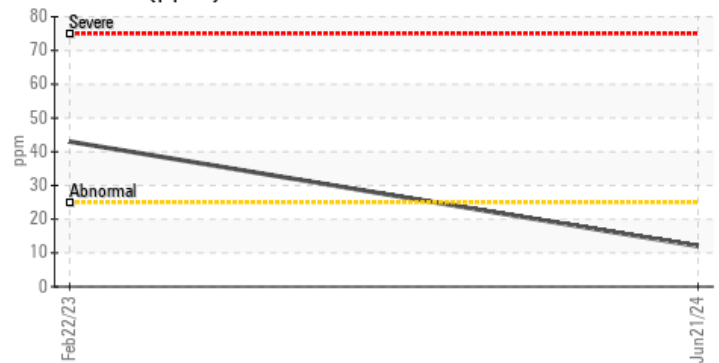
Chromium (ppm)



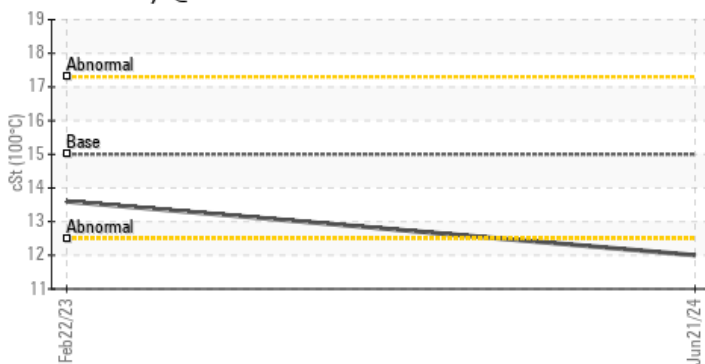
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

