



CONSTRUCTION EQUIPMENT

X46976 TADANO GR800XL4 RA1212 - DIESEL ENGINE



Sample No: VCP408399
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X46976



SAMPLE INFORMATION

Sample Number	VCP408399	VCP379416	---	---
Sample Date	03 Jul 2023	02 Feb 2023	---	---
Machine Hours	1407	511	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	MARGINAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.3	13.0	---	---
Base Number (BN)	mg KOH/g	9.6	8.4	---	---
Oxidation (PA)	%	88	65	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. 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

Soot %	%	0.5	0.3	---	---
Nitration (PA)	%	78	64	---	---
Sulfation (PA)	%	64	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	2.9	<1.0	---	---
Silicon	ppm	15	51	---	---
Sodium	ppm	3	3	---	---
Potassium	ppm	2	3	---	---



WEAR METALS

Iron	ppm	29	24	---	---
Copper	ppm	4	20	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	3	4	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	41	60	---	---
Nickel	ppm	<1	1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	2	6	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	1657	1727	---	---
Magnesium	ppm	458	347	---	---
Zinc	ppm	1063	1171	---	---
Phosphorus	ppm	846	972	---	---
Barium	ppm	0	5	---	---
Boron	ppm	41	120	---	---

Depot: VOLVO6244
Unique No: 10550581
Signed: Wes Davis
Report Date: 12 Jul 2023

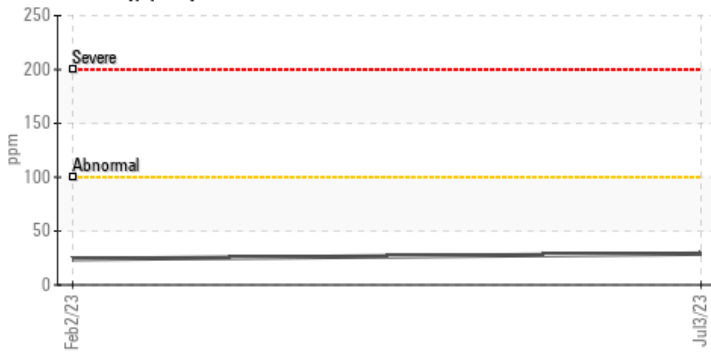


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GRAPHS

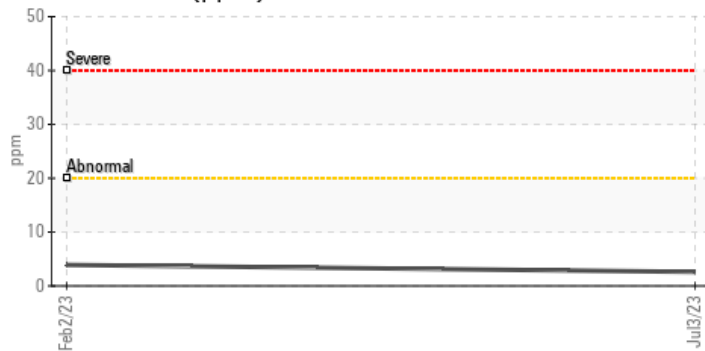
Iron (ppm)



Lead (ppm)



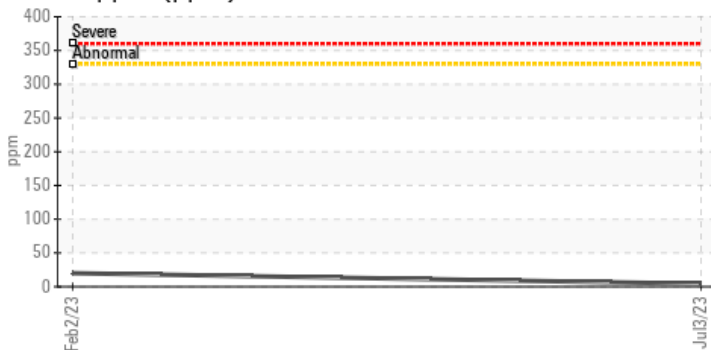
Aluminum (ppm)



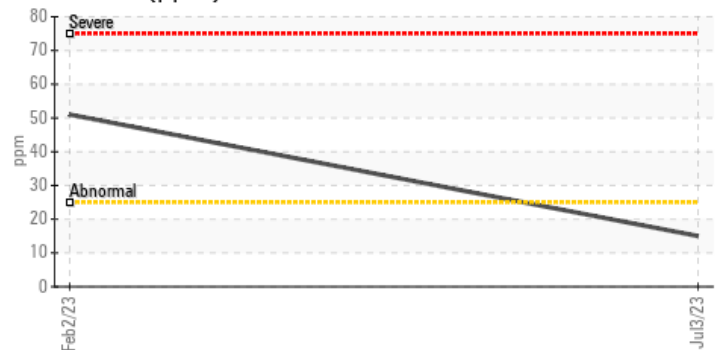
Chromium (ppm)



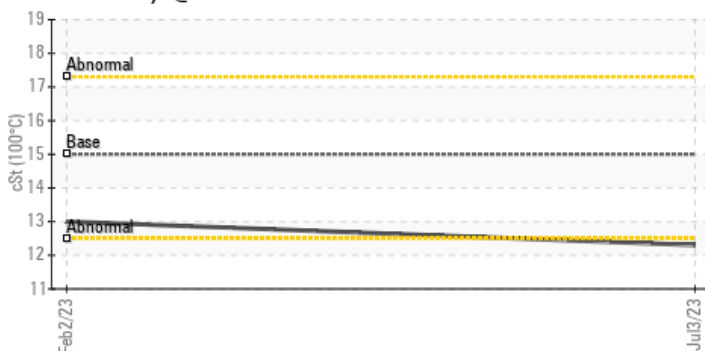
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

