



CONSTRUCTION EQUIPMENT

25899 VOLVO SD75 624698 - DIESEL ENGINE



Sample No: VCP453719
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25899



SAMPLE INFORMATION

Sample Number	VCP453719	VCP423577	---	---
Sample Date	14 Jun 2024	12 Apr 2023	---	---
Machine Hours	1014	593	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 11.0	■ 12.6	---	---
Base Number (BN)	mg KOH/g	■ 10.3	■ 8.9	---	---
Oxidation (PA)	%	57	71	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. No other contaminants were detected in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.3	■ 0.2	---	---
Nitration (PA)	%	53	55	---	---
Sulfation (PA)	%	54	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 2.1	<1.0	---	---
Silicon	ppm	■ 14	■ 19	---	---
Sodium	ppm	■ <1	■ 2	---	---
Potassium	ppm	■ 2	■ 3	---	---



WEAR METALS

Iron	ppm	■ 24	■ 32	---	---
Copper	ppm	■ 3	■ 9	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 1	■ 3	---	---
Aluminum	ppm	■ 11	■ 20	---	---
Chromium	ppm	■ 2	■ 2	---	---
Molybdenum	ppm	■ 25	■ 38	---	---
Nickel	ppm	■ <1	■ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 2	■ 5	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 2356	■ 1536	---	---
Magnesium	ppm	■ 344	■ 584	---	---
Zinc	ppm	■ 1213	■ 1143	---	---
Phosphorus	ppm	■ 962	■ 961	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 63	■ 45	---	---

Depot: VOLVO3387
Unique No: 11089402
Signed: Sean Felton
Report Date: 25 Jun 2024

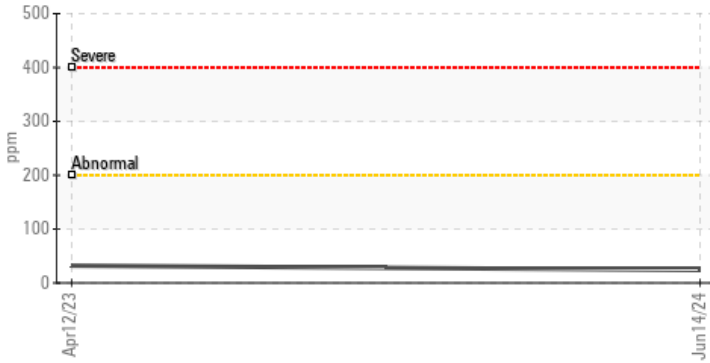


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GRAPHS

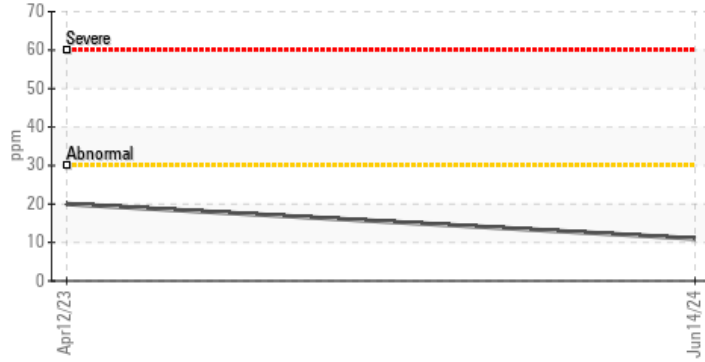
Iron (ppm)



Lead (ppm)



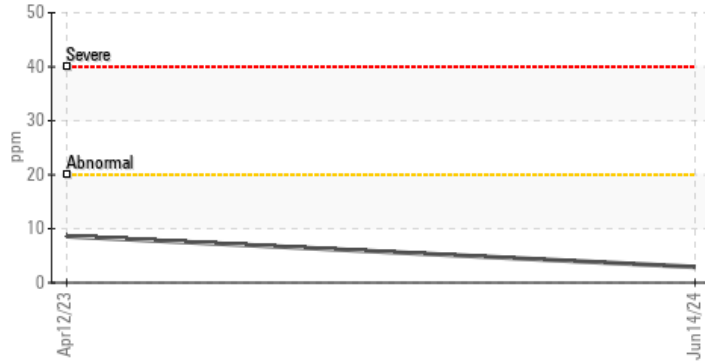
Aluminum (ppm)



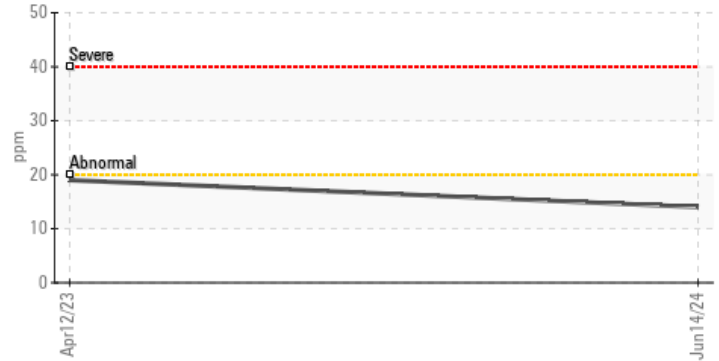
Chromium (ppm)



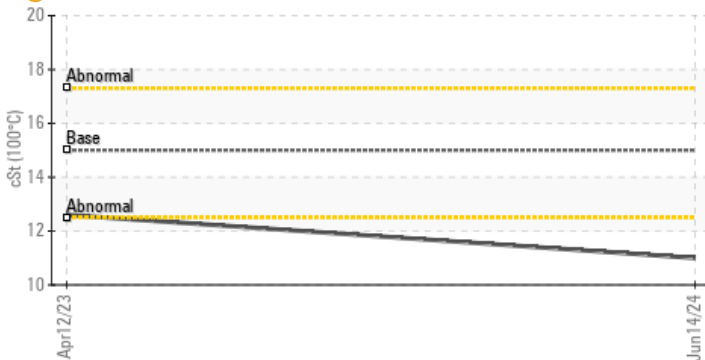
Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

