



CONSTRUCTION EQUIPMENT

X18785 VOLVO L90H 626971 - DIESEL ENGINE



Sample No: VCP444576
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X18785



SAMPLE INFORMATION

Sample Number	VCP444576	VCP445374	---	---
Sample Date	24 Jun 2024	05 Mar 2024	---	---
Machine Hours	1093	548	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	█ 12.4	---	---
Base Number (BN)	mg KOH/g	█ 10.3	█ 9.7	---	---
Oxidation (PA)	%	80	78	---	---

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. Blower/turbocharger and/or piston wear is indicated. 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 acceptable for the time in service.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.6	█ 0.1	---	---
Nitration (PA)	%	64	59	---	---
Sulfation (PA)	%	62	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 17	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 0	█ <1	---	---

WEAR METALS

Iron	ppm	█ 27	█ 18	---	---
Copper	ppm	█ 0	█ 8	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	▲ 27	█ 8	---	---
Chromium	ppm	█ 4	█ 2	---	---
Molybdenum	ppm	█ 37	█ 41	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 4	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 1781	█ 1652	---	---
Magnesium	ppm	█ 565	█ 605	---	---
Zinc	ppm	█ 1227	█ 1134	---	---
Phosphorus	ppm	█ 1017	█ 942	---	---
Barium	ppm	█ 0	█ 3	---	---
Boron	ppm	█ 42	█ 44	---	---

Depot: VOLVO8771
Unique No: 11116384
Signed: Sean Felton
Report Date: 12 Jul 2024

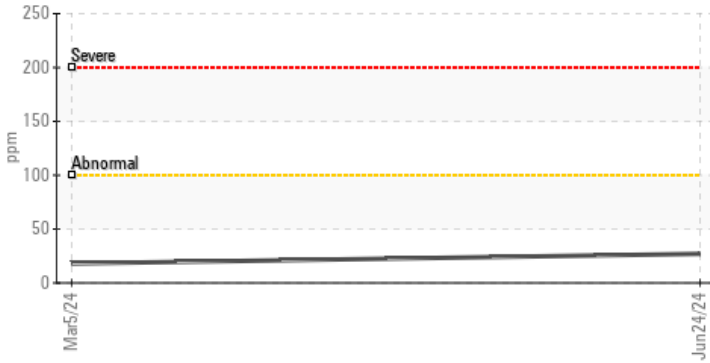


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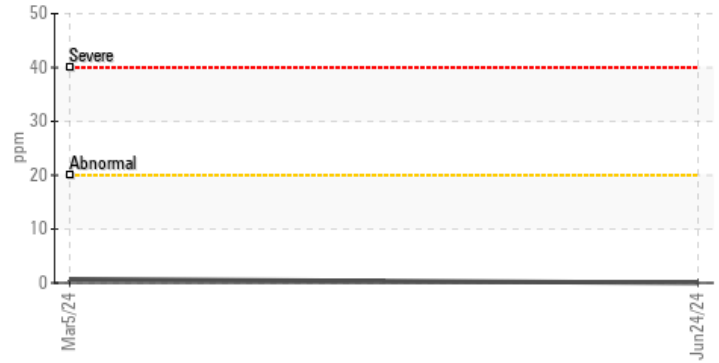


GRAPHS

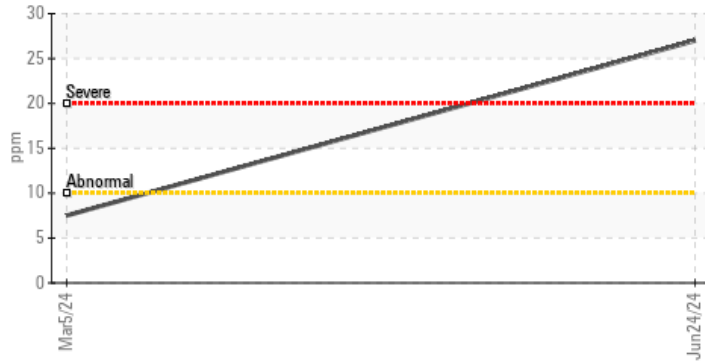
Iron (ppm)



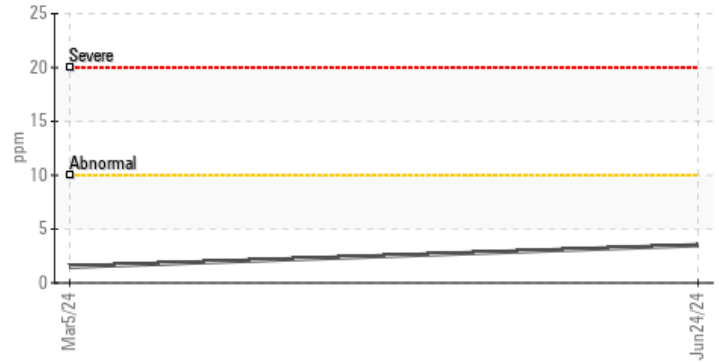
Lead (ppm)



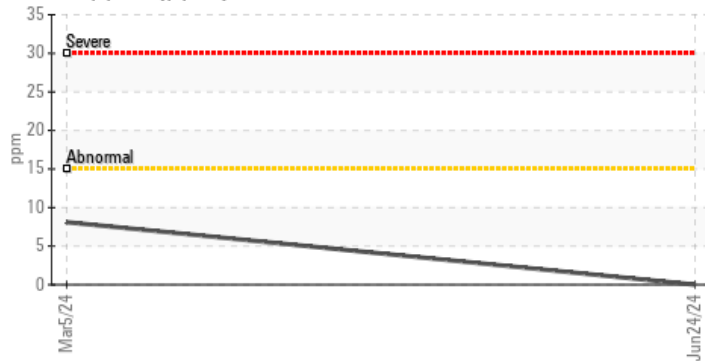
Aluminum (ppm)



Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

