



CONSTRUCTION EQUIPMENT

W0230333 VOLVO L60H 623400 - DIESEL ENGINE



Sample No: VCP428503
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: W0230333



SAMPLE INFORMATION

Sample Number	VCP428503	VCP428597	---	---
Sample Date	18 Apr 2024	31 Jan 2024	---	---
Machine Hours	0	0	---	---
Oil Hours	1100	578	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 12.8	---	---
Base Number (BN)	mg KOH/g	█ 8.4	█ 9.1	---	---
Oxidation (PA)	%	70	76	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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 %	%	█ 0.4	█ 0.4	---	---
Nitration (PA)	%	67	62	---	---
Sulfation (PA)	%	62	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	▲ 31	▲ 39	---	---
Sodium	ppm	█ 2	█ 1	---	---
Potassium	ppm	█ <1	█ 0	---	---



WEAR METALS

Iron	ppm	█ 17	█ 38	---	---
Copper	ppm	█ 2	█ 7	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ 2	█ 3	---	---
Aluminum	ppm	● 14	▲ 39	---	---
Chromium	ppm	█ 1	█ 4	---	---
Molybdenum	ppm	█ 117	█ 47	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ 4	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1684	█ 1559	---	---
Magnesium	ppm	█ 702	█ 602	---	---
Zinc	ppm	█ 983	█ 1129	---	---
Phosphorus	ppm	█ 832	█ 942	---	---
Barium	ppm	█ <1	█ 0	---	---
Boron	ppm	█ 211	█ 61	---	---

Depot: VOLVO0081
Unique No: 11003245
Signed: Sean Felton
Report Date: 01 May 2024



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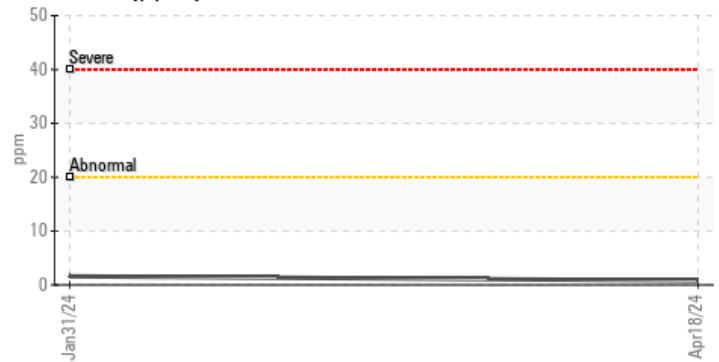


GRAPHS

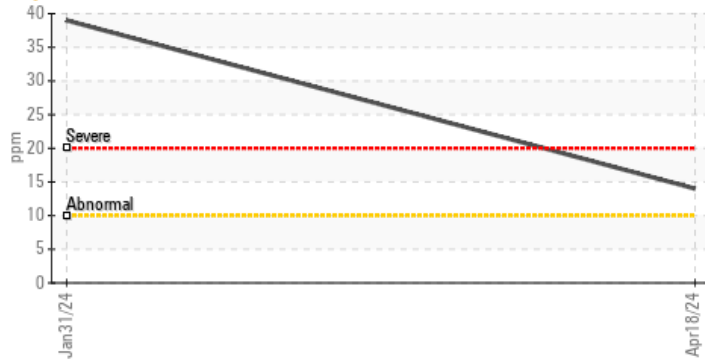
Iron (ppm)



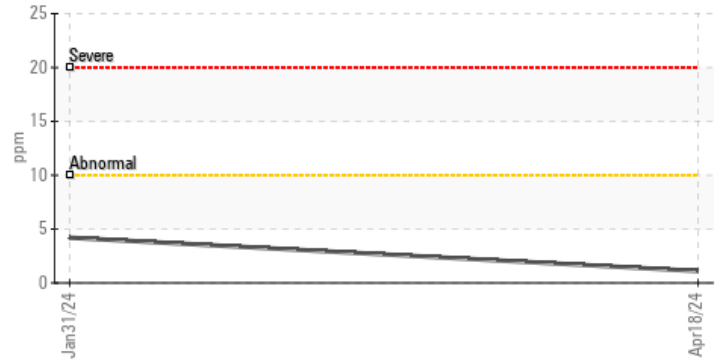
Lead (ppm)



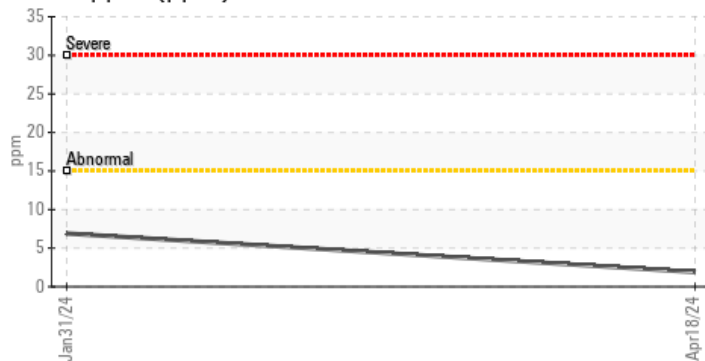
Aluminum (ppm)



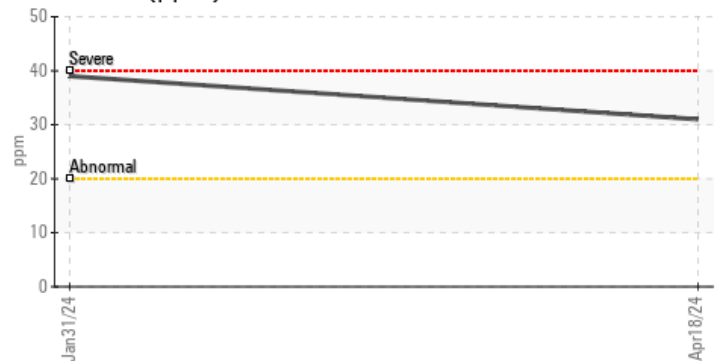
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

