



CONSTRUCTION EQUIPMENT

702165 HILLSBOROUGH VOLVO L60H 623196 - DIESEL ENGINE



Sample No: VCP445514
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 702165 HILLSBOROUGH



SAMPLE INFORMATION

Sample Number	VCP445514	VCP452335	---	---
Sample Date	19 Apr 2024	03 Jan 2024	---	---
Machine Hours	2114	1554	---	---
Oil Hours	500	1554	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	█ 12.9	---	---
Base Number (BN)	mg KOH/g	█ 6.4	█ 7.1	---	---
Oxidation (PA)	%	67	82	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.5	█ 0.7	---	---
Nitration (PA)	%	80	83	---	---
Sulfation (PA)	%	57	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 18	---	---
Sodium	ppm	█ 3	█ <1	---	---
Potassium	ppm	█ 2	█ 3	---	---



WEAR METALS

Iron	ppm	█ 21	█ 67	---	---
Copper	ppm	█ 3	█ 15	---	---
Lead	ppm	█ <1	█ 3	---	---
Tin	ppm	█ 1	█ 4	---	---
Aluminum	ppm	█ 7	█ 12	---	---
Chromium	ppm	█ 1	█ 4	---	---
Molybdenum	ppm	█ 49	█ 58	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ <1	█ 5	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1493	█ 1402	---	---
Magnesium	ppm	█ 633	█ 647	---	---
Zinc	ppm	█ 1159	█ 1095	---	---
Phosphorus	ppm	█ 1046	█ 884	---	---
Barium	ppm	█ 0	█ 14	---	---
Boron	ppm	█ 32	█ 14	---	---

Depot: VOLVO0093
Unique No: 11036739
Signed: Wes Davis
Report Date: 22 May 2024

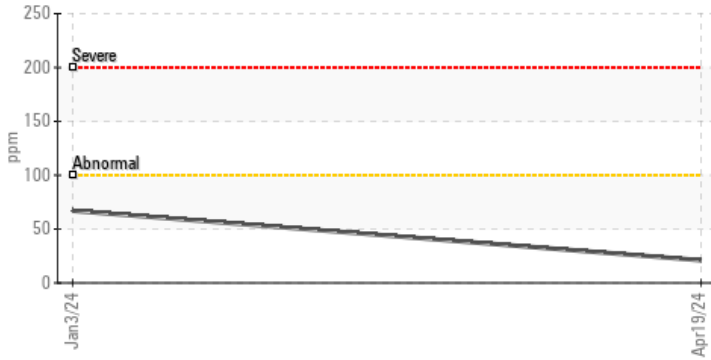


CONSTRUCTION EQUIPMENT

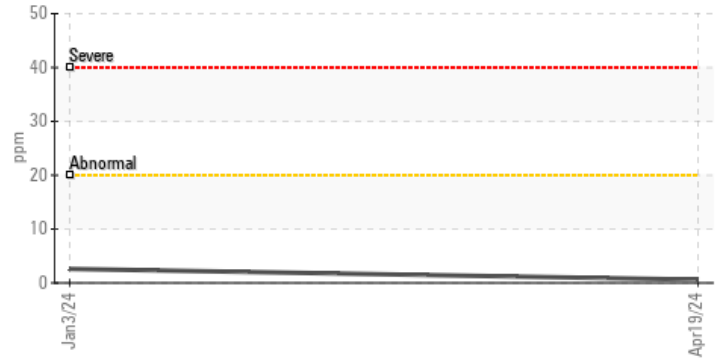


GRAPHS

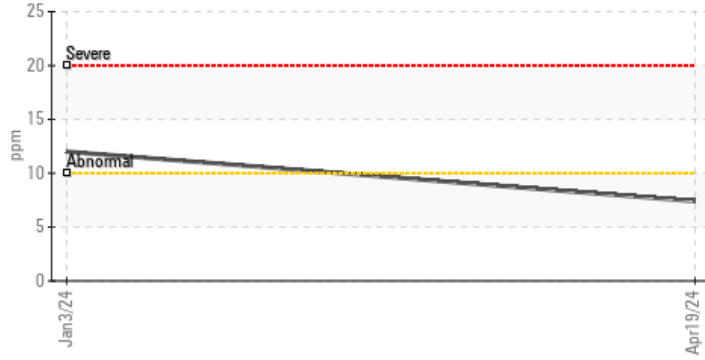
Iron (ppm)



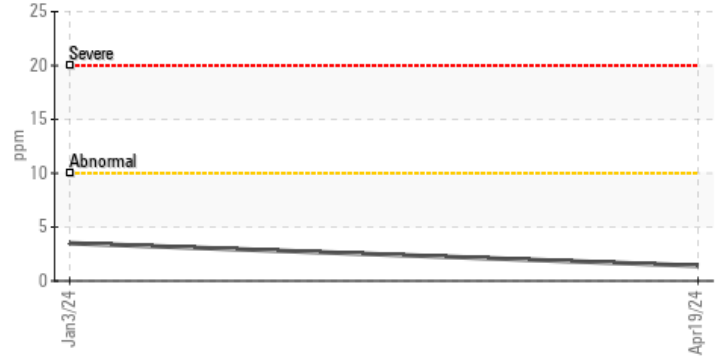
Lead (ppm)



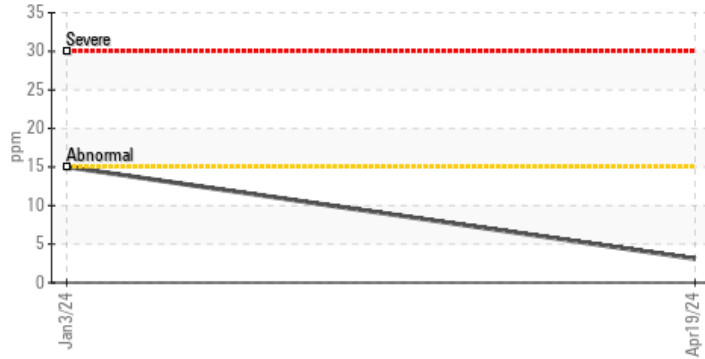
Aluminum (ppm)



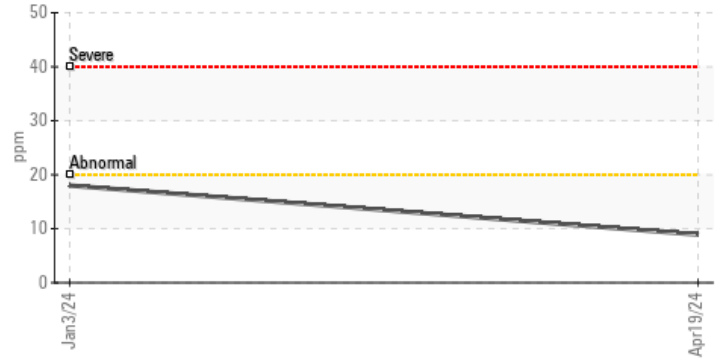
Chromium (ppm)



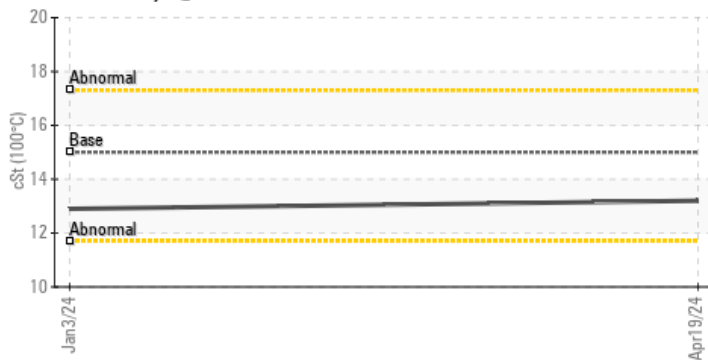
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

