



CONSTRUCTION EQUIPMENT

25356 VOLVO L350 5031 - DIESEL ENGINE



Sample No: VCP455254
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25356



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP455254	VCP441243	---	---
Sample Date	05 Apr 2024	30 Jan 2024	---	---
Machine Hours	938	693	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	● 11.0	---	---
Base Number (BN)	mg KOH/g	█ 9.8	█ 6.2	---	---
Oxidation (PA)	%	78	59	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	51	73	---	---
Sulfation (PA)	%	61	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.9	---	---
Silicon	ppm	█ 7	█ 27	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ 2	█ 3	---	---



WEAR METALS

Iron	ppm	█ 6	█ 17	---	---
Copper	ppm	▲ 88	▲ 377	---	---
Lead	ppm	█ 0	█ 4	---	---
Tin	ppm	█ 0	█ 3	---	---
Aluminum	ppm	█ 0	█ 3	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 49	█ 85	---	---
Nickel	ppm	█ 0	█ 2	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ 1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1924	█ 2133	---	---
Magnesium	ppm	█ 486	29	---	---
Zinc	ppm	█ 1169	█ 1213	---	---
Phosphorus	ppm	█ 1037	█ 1001	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 54	█ 49	---	---

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. The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. 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.

Depot: VOLVO3387
Unique No: 10977082
Signed: Sean Felton
Report Date: 15 Apr 2024

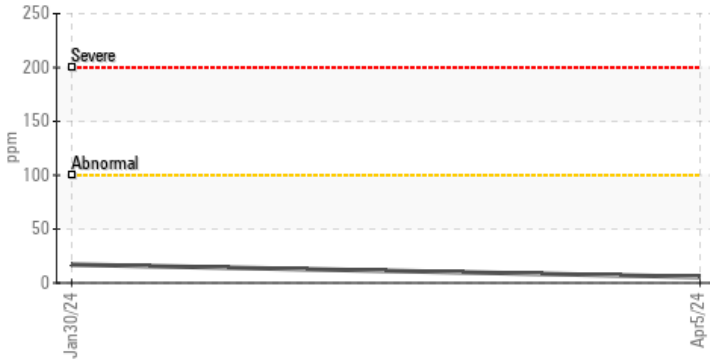


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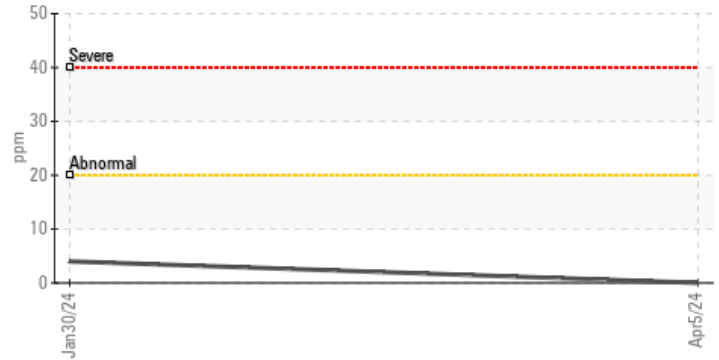


GRAPHS

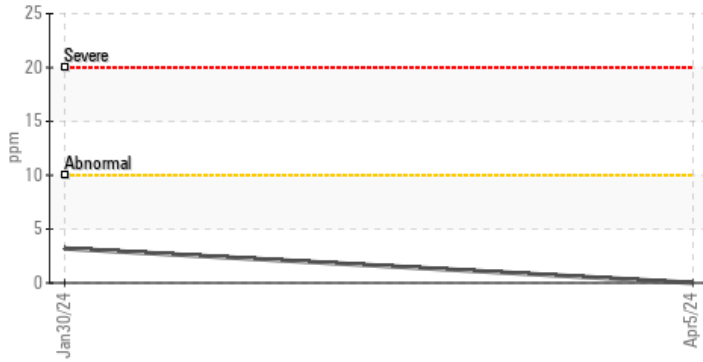
Iron (ppm)



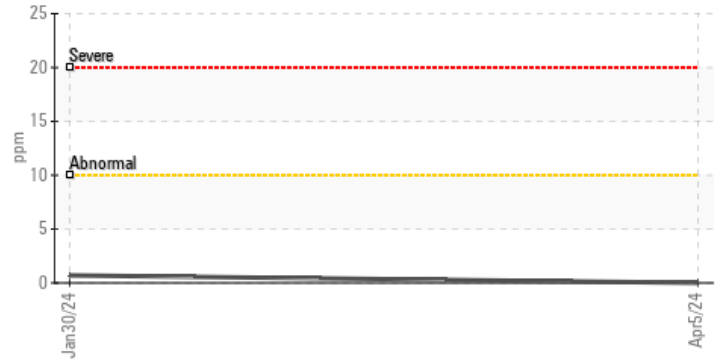
Lead (ppm)



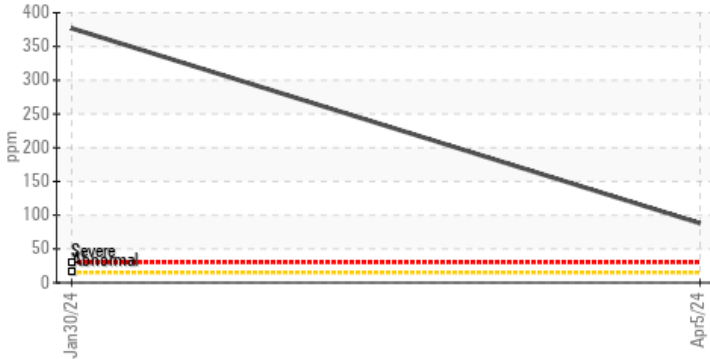
Aluminum (ppm)



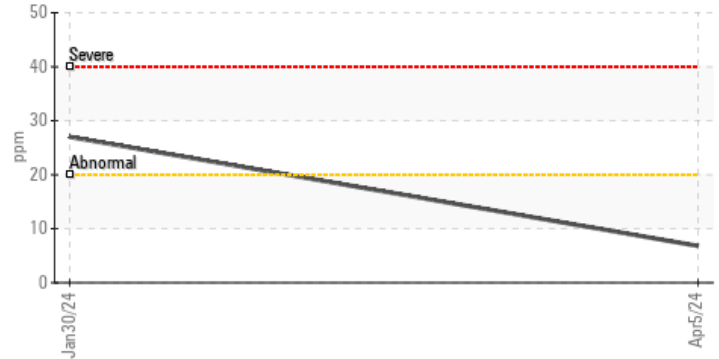
Chromium (ppm)



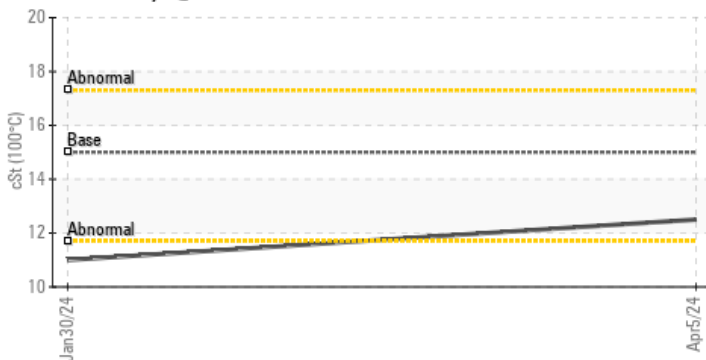
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

