



CONSTRUCTION EQUIPMENT

SWA534952 VOLVO A30G 753249 - DIESEL ENGINE



Sample No: VCP455203
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA534952



ALTA EQUIPMENT COMPANY
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SAMPLE INFORMATION

Sample Number	VCP455203	VCP438914	---	---
Sample Date	19 Apr 2024	21 Dec 2023	---	---
Machine Hours	984	897	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	10.6	---	---
Base Number (BN)	mg KOH/g	█ 9.1	█ 5.2	---	---
Oxidation (PA)	%	63	65	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.5	---	---
Nitration (PA)	%	50	91	---	---
Sulfation (PA)	%	55	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.4	---	---
Silicon	ppm	█ 12	█ 54	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 0	█ 5	---	---



WEAR METALS

Iron	ppm	█ 8	█ 35	---	---
Copper	ppm	█ 86	█ 204	---	---
Lead	ppm	█ 0	█ 2	---	---
Tin	ppm	█ 1	█ 3	---	---
Aluminum	ppm	█ 1	█ 4	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 57	█ 80	---	---
Nickel	ppm	█ 2	▲ 7	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ 1	6	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1524	█ 2052	---	---
Magnesium	ppm	█ 596	█ 70	---	---
Zinc	ppm	█ 1107	█ 1161	---	---
Phosphorus	ppm	█ 985	█ 999	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 31	█ 10	---	---

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.

Depot: VOLVO0090
Unique No: 10992780
Signed: Jonathan Hester
Report Date: 25 Apr 2024

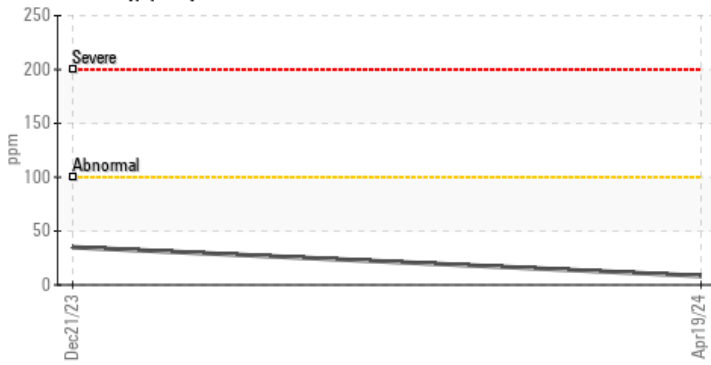


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GRAPHS

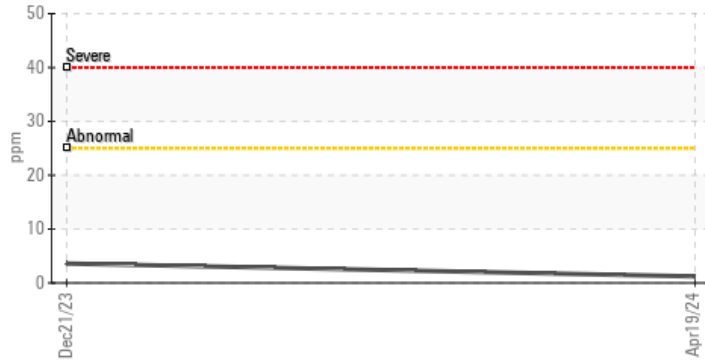
Iron (ppm)



Lead (ppm)



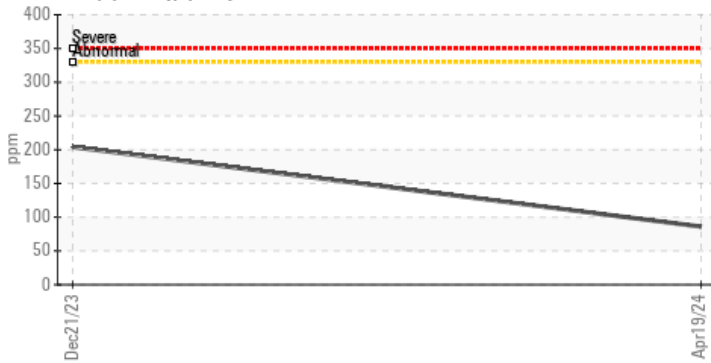
Aluminum (ppm)



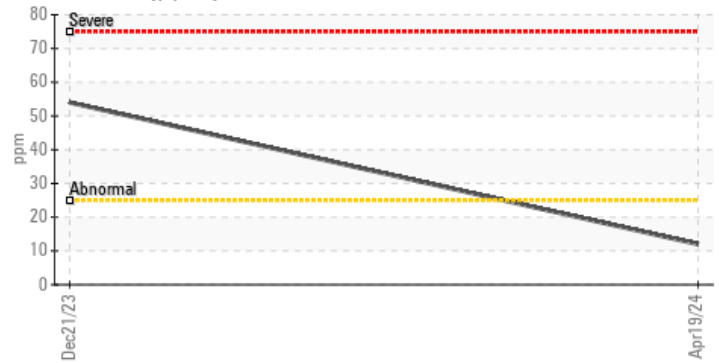
Chromium (ppm)



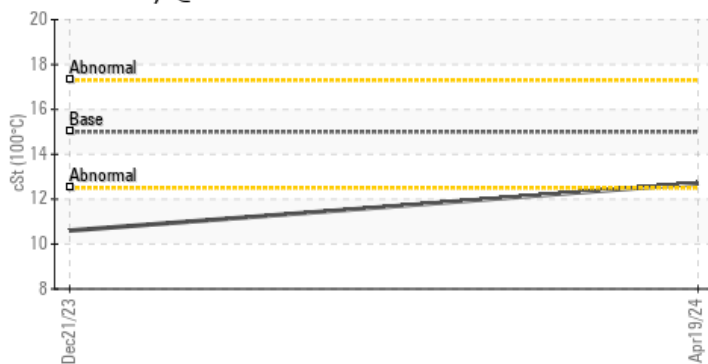
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

