



CONSTRUCTION EQUIPMENT

634625 B&C VOLVO A30 753224 - DIESEL ENGINE



Sample No: VCP440363
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 634625 B&C



SAMPLE INFORMATION

Sample Number	VCP440363	VCP395213	---	---
Sample Date	28 Nov 2023	01 Jun 2023	---	---
Machine Hours	1304	514	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	MARGINAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.3	▲ 10.8	---	---
Base Number (BN)	mg KOH/g	7.4	■ 6.3	---	---
Oxidation (PA)	%	84	■ 61	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. 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	■ 0.4	---	---
Nitration (PA)	%	78	■ 82	---	---
Sulfation (PA)	%	64	■ 55	---	---
Glycol	%	NEG	■ 0.0	---	---
Fuel	%	<1.0	■ 0.4	---	---
Silicon	ppm	11	▲ 57	---	---
Sodium	ppm	3	■ 2	---	---
Potassium	ppm	0	■ 2	---	---



WEAR METALS

Iron	ppm	22	■ 24	---	---
Copper	ppm	▲ 75	▲ 349	---	---
Lead	ppm	0	■ 0	---	---
Tin	ppm	1	■ <1	---	---
Aluminum	ppm	<1	■ 0	---	---
Chromium	ppm	<1	■ <1	---	---
Molybdenum	ppm	44	■ 82	---	---
Nickel	ppm	2	■ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	■ 1	---	---
Manganese	ppm	1	■ 4	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1841	■ 2389	---	---
Magnesium	ppm	428	■ 22	---	---
Zinc	ppm	1083	■ 1325	---	---
Phosphorus	ppm	934	■ 1043	---	---
Barium	ppm	0	■ 0	---	---
Boron	ppm	16	■ 22	---	---

Depot: VOLVO0096
Unique No: 10765804
Signed: Jonathan Hester
Report Date: 01 Dec 2023



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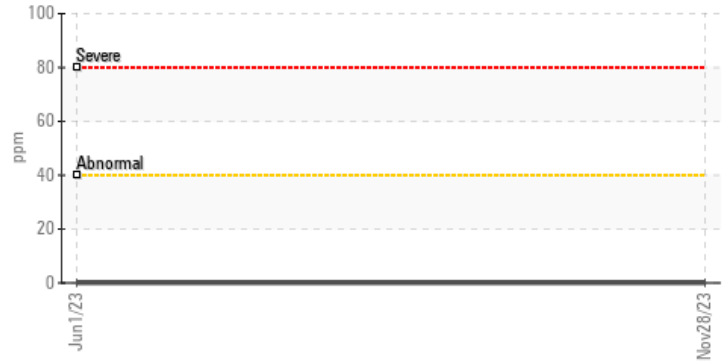


GRAPHS

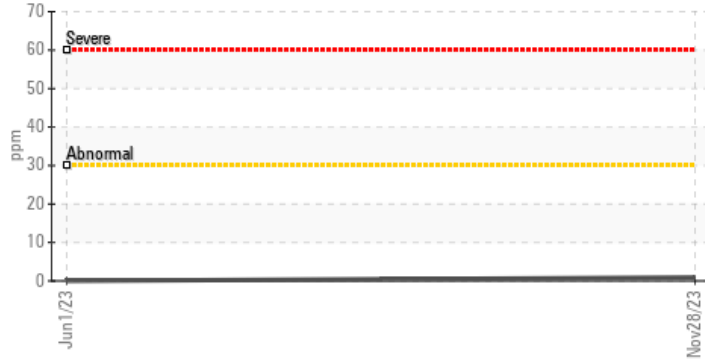
Iron (ppm)



Lead (ppm)



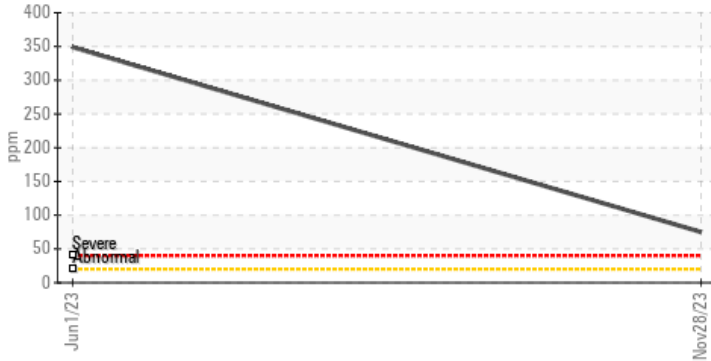
Aluminum (ppm)



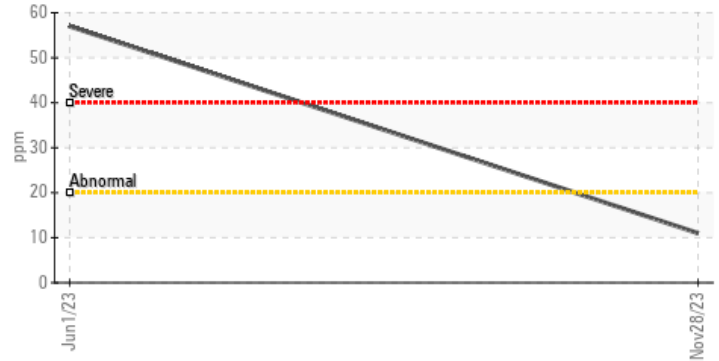
Chromium (ppm)



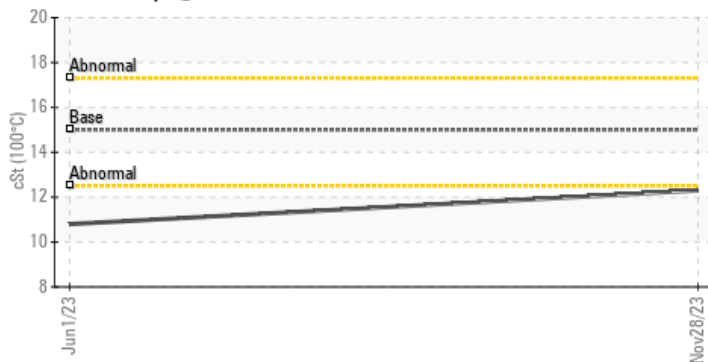
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

