



CONSTRUCTION EQUIPMENT

SWA404341 VOLVO A30G 753089 - DIESEL ENGINE



Sample No: VCP431466
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA404341



SAMPLE INFORMATION

Sample Number	VCP431466	---	---	---
Sample Date	01 Nov 2023	---	---	---
Machine Hours	896	---	---	---
Oil Hours	400	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

JON M HALL COMPANY
 1920 BOOTHE CIRCLE SUITE 110
 LONGWOOD, FL
 US 32750
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	---	---	---
Base Number (BN)	mg KOH/g	■ 9.4	---	---	---
Oxidation (PA)	%	76	---	---	---

T: (407)215-0410
 F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is 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. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 10	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 10	---	---	---
Copper	ppm	▲ 64	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 51	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1637	---	---	---
Magnesium	ppm	■ 428	---	---	---
Zinc	ppm	■ 1064	---	---	---
Phosphorus	ppm	■ 991	---	---	---
Barium	ppm	■ 5	---	---	---
Boron	ppm	■ 41	---	---	---

Depot: JONLON
Unique No: 10728561
Signed: Sean Felton
Report Date: 08 Nov 2023



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GRAPHS

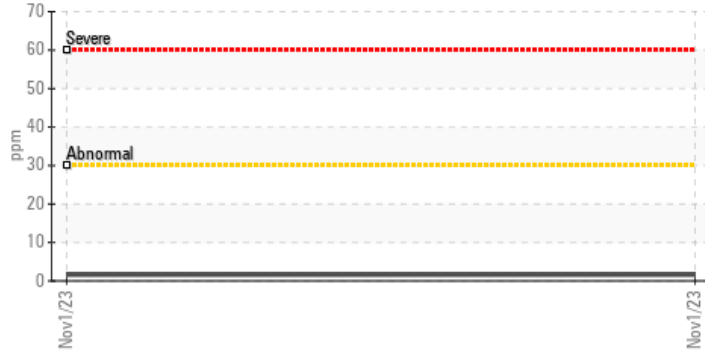
Iron (ppm)



Lead (ppm)



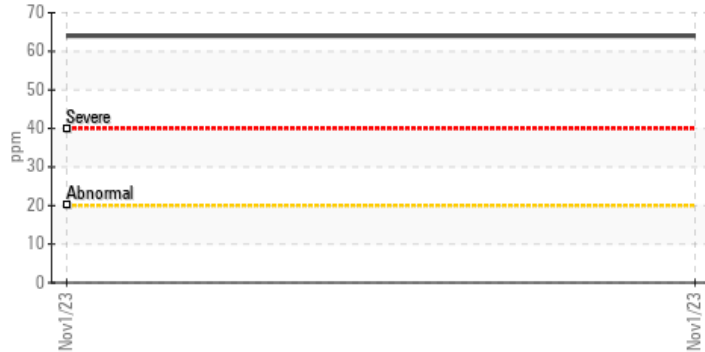
Aluminum (ppm)



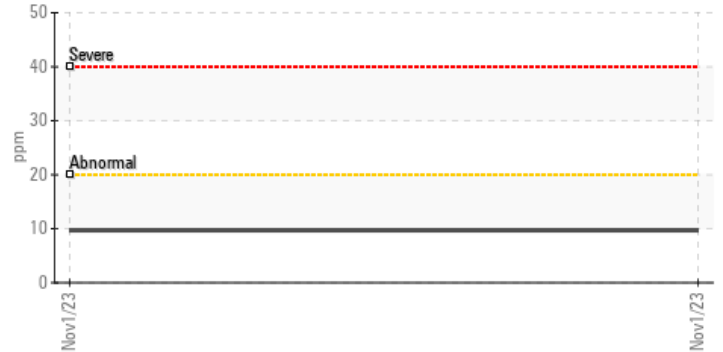
Chromium (ppm)



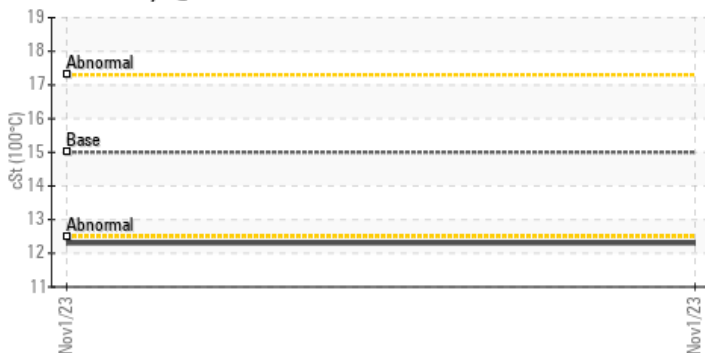
▲ Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

