



CONSTRUCTION EQUIPMENT

9601 VOLVO A40G 353284 - DIESEL ENGINE



Sample No: VCP413784
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 9601



SAMPLE INFORMATION

Sample Number	VCP413784	---	---	---
Sample Date	14 Sep 2023	---	---	---
Machine Hours	592	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 24024 FREDERICK ROAD
 CLARKSBURG, MD
 US 20871
 Contact: H TRENT
 HTRENT@PLEASANTS.ORG
 T: (301)252-5635
 F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.1	---	---	---
Base Number (BN)	mg KOH/g	■ 6.1	---	---	---
Oxidation (PA)	%	■ 58	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. 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)	%	■ 67	---	---	---
Sulfation (PA)	%	■ 53	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	■ 26	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 4	---	---	---



WEAR METALS

Iron	ppm	■ 19	---	---	---
Copper	ppm	■ 380	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 63	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	■ 0	---	---	---



ADDITIVES

Calcium	ppm	■ 1949	---	---	---
Magnesium	ppm	■ 236	---	---	---
Zinc	ppm	■ 1266	---	---	---
Phosphorus	ppm	■ 1031	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 68	---	---	---

Depot: PLECLA
Unique No: 10657353
Signed: Angela Borella
Report Date: 21 Sep 2023



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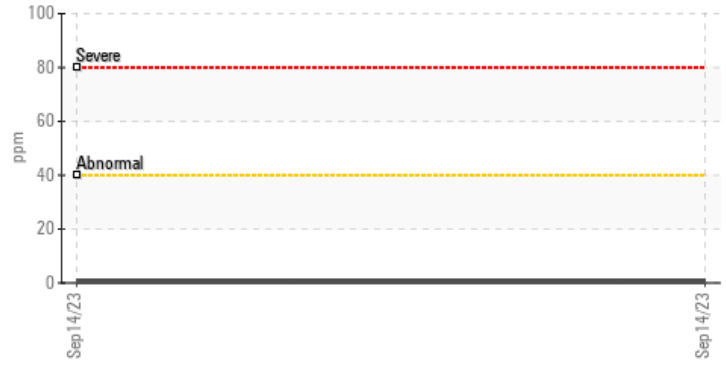


GRAPHS

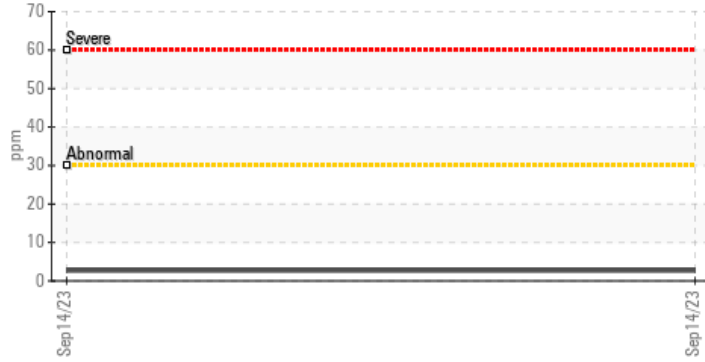
Iron (ppm)



Lead (ppm)



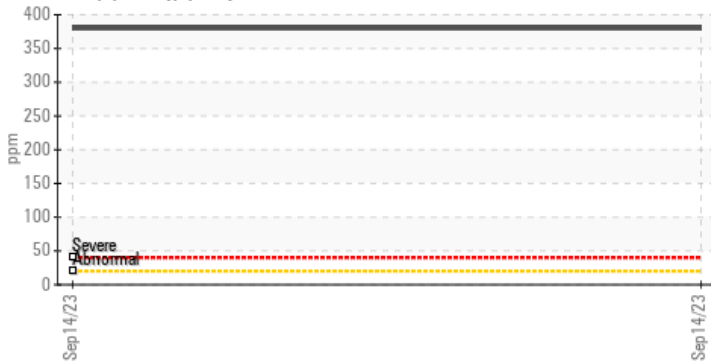
Aluminum (ppm)



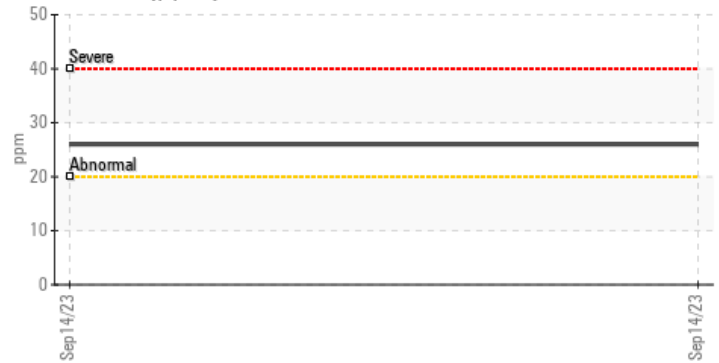
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

