



CONSTRUCTION EQUIPMENT

SWA322169 VOLVO A25G 752692 - DIESEL ENGINE



Sample No: VCP412371
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA322169



SAMPLE INFORMATION

Sample Number	VCP412371	---	---	---
Sample Date	07 Aug 2023	---	---	---
Machine Hours	544	---	---	---
Oil Hours	544	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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T:
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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.6	---	---	---
Base Number (BN)	mg KOH/g	■ 5.9	---	---	---
Oxidation (PA)	%	■ 57	---	---	---



CONTAMINATION

Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	■ 84	---	---	---
Sulfation (PA)	%	■ 53	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.5	---	---	---
Silicon	ppm	▲ 63	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 4	---	---	---



WEAR METALS

Iron	ppm	■ 27	---	---	---
Copper	ppm	▲ 410	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 85	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 1	---	---	---
Manganese	ppm	■ 6	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2220	---	---	---
Magnesium	ppm	■ 13	---	---	---
Zinc	ppm	■ 1243	---	---	---
Phosphorus	ppm	■ 1032	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 36	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. Elemental level of silicon (Si) above normal. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0090
Unique No: 10605811
Signed: Angela Borella
Report Date: 18 Aug 2023



CONSTRUCTION EQUIPMENT

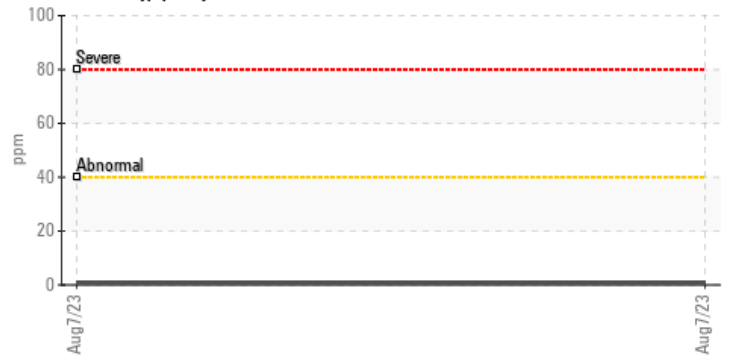


GRAPHS

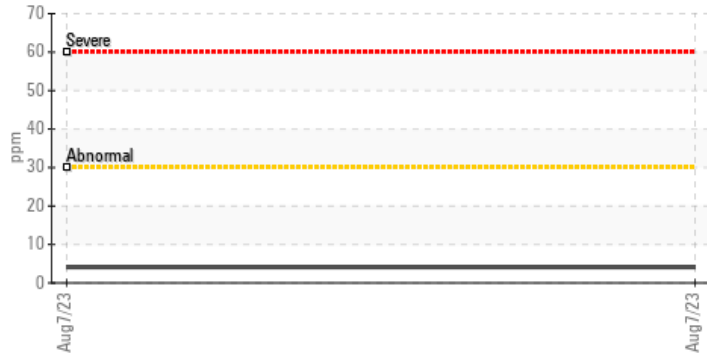
Iron (ppm)



Lead (ppm)



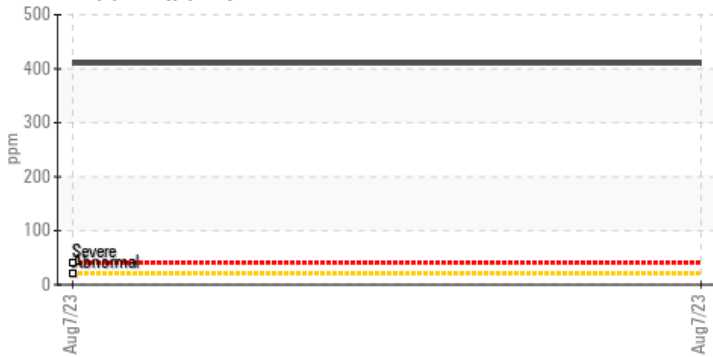
Aluminum (ppm)



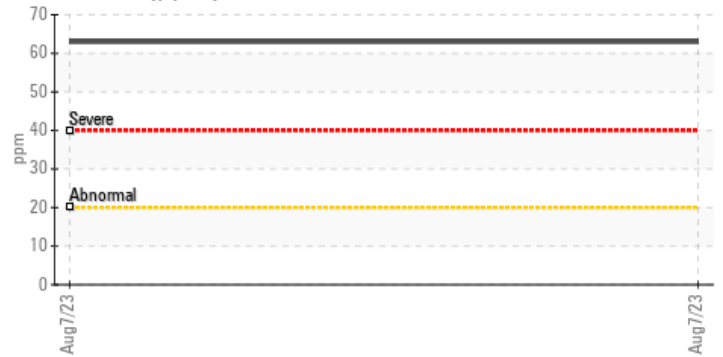
Chromium (ppm)



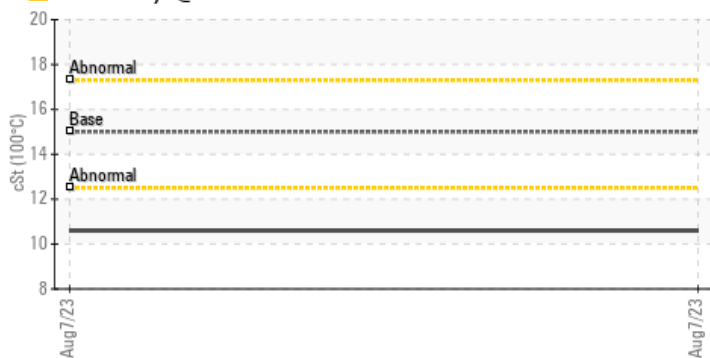
▲ Copper (ppm)



▲ Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

