



CONSTRUCTION EQUIPMENT

568047 GLE VOLVO L20H 1220431 - DIESEL ENGINE



Sample No: VCP412730
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 568047 GLE



SAMPLE INFORMATION

Sample Number	VCP412730	---	---	---
Sample Date	05 Jul 2023	---	---	---
Machine Hours	2618	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 17.2	---	---	---
Base Number (BN)	mg KOH/g	▲ 0.0	---	---	---
Oxidation (PA)	%	141	---	---	---



CONTAMINATION

Soot %	%	◆ 5.1	---	---	---
Nitration (PA)	%	159	---	---	---
Sulfation (PA)	%	104	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	■ 12	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 0	---	---	---



WEAR METALS

Iron	ppm	▲ 173	---	---	---
Copper	ppm	▲ 30	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	■ 64	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2043	---	---	---
Magnesium	ppm	■ 498	---	---	---
Zinc	ppm	■ 1435	---	---	---
Phosphorus	ppm	■ 1121	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 2	---	---	---

Diagnosis

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value. Cylinder, crank, or cam shaft wear is indicated. Bearing wear is indicated. There is an abnormal amount of solids and carbon present in the oil. The oil viscosity is higher than normal. The BN level is low.

Depot: VOLVO0096
Unique No: 10549132
Signed: Don Baldrige
Report Date: 11 Jul 2023

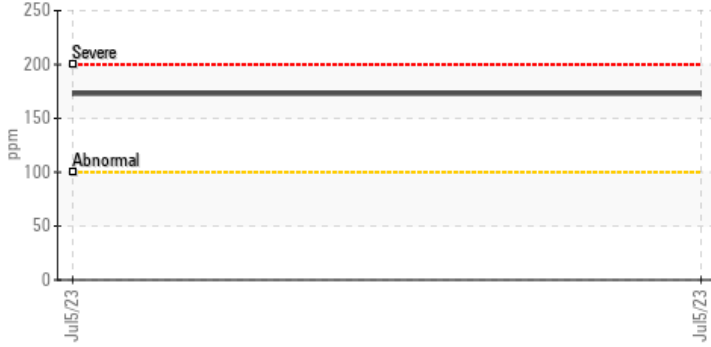


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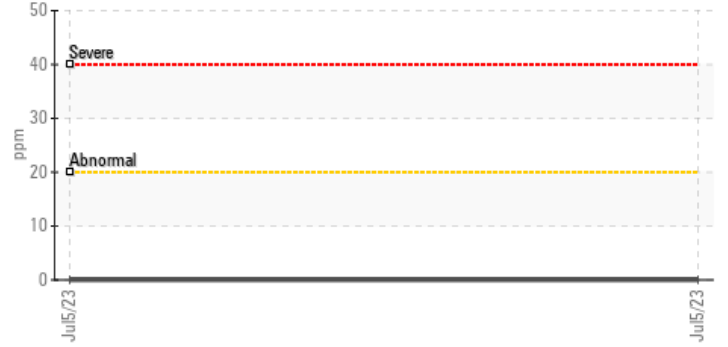


GRAPHS

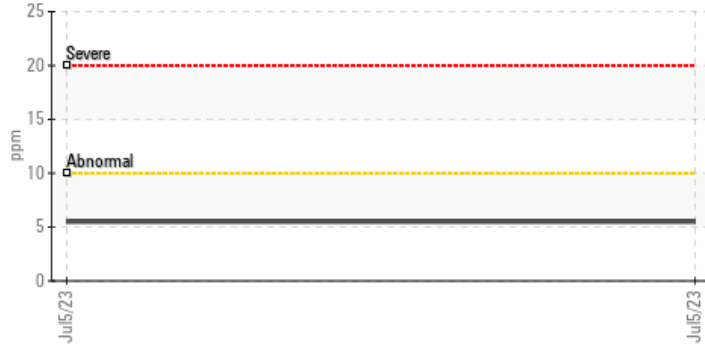
▲ Iron (ppm)



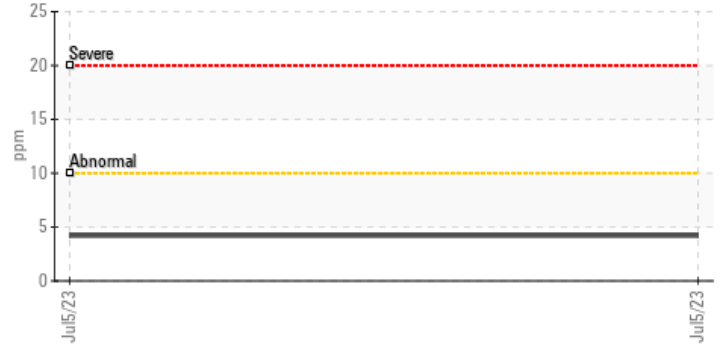
Lead (ppm)



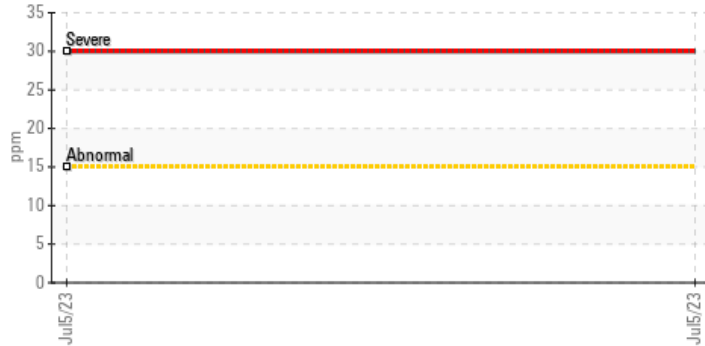
Aluminum (ppm)



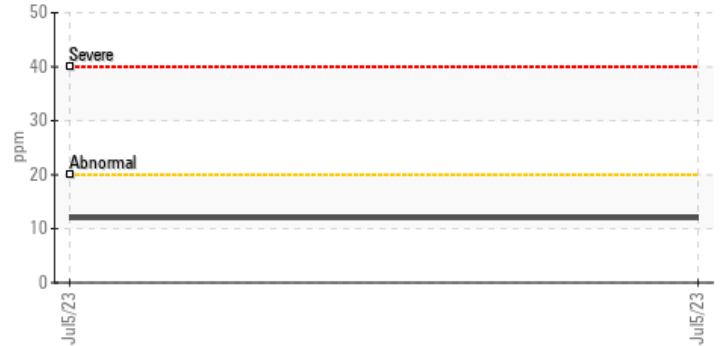
Chromium (ppm)



▲ Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



▲ Base Number

