



CONSTRUCTION EQUIPMENT

SWA323743-10 VOLVO L20H 1220 - DIESEL ENGINE



Sample No: VCP411680
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA323743-10



SAMPLE INFORMATION

Sample Number	VCP411680	---	---	---
Sample Date	10 Aug 2023	---	---	---
Machine Hours	827	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.1	---	---	---
Base Number (BN)	mg KOH/g	■ 8.3	---	---	---
Oxidation (PA)	%	■ 102	---	---	---

CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 100	---	---	---
Sulfation (PA)	%	■ 65	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	● 11.0	---	---	---
Silicon	ppm	■ 17	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 2	---	---	---

WEAR METALS

Iron	ppm	■ 25	---	---	---
Copper	ppm	■ 11	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 8	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 57	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 1821	---	---	---
Magnesium	ppm	■ 292	---	---	---
Zinc	ppm	■ 1133	---	---	---
Phosphorus	ppm	■ 895	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 134	---	---	---

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0096
Unique No: 10604688
Signed: Jonathan Hester
Report Date: 17 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

