



CONSTRUCTION EQUIPMENT

606027 VOLVO A40 314620 - DIESEL ENGINE



Sample No: VCP412695
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 606027



SAMPLE INFORMATION

Sample Number	VCP412695	---	---	---
Sample Date	05 Sep 2023	---	---	---
Machine Hours	10526	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
 ORLANDO, FL
 US 32829
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	---	---	---
Base Number (BN)	mg KOH/g	■ 8.3	---	---	---
Oxidation (PA)	%	78	---	---	---



CONTAMINATION

Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	75	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 3.5	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 36	---	---	---
Potassium	ppm	■ 39	---	---	---

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate 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.



WEAR METALS

Iron	ppm	■ 11	---	---	---
Copper	ppm	■ 4	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 48	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1775	---	---	---
Magnesium	ppm	■ 570	---	---	---
Zinc	ppm	■ 1151	---	---	---
Phosphorus	ppm	■ 937	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 22	---	---	---

Depot: ORAORL
Unique No: 10645910
Signed: Don Baldrige
Report Date: 18 Sep 2023



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GRAPHS

