



CONSTRUCTION EQUIPMENT

VOLVO A40G 297790 - DIESEL ENGINE



Sample No: VCP426722
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP426722	---	---	---
Sample Date	21 Jul 2023	---	---	---
Machine Hours	5498	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	---	---	---
Base Number (BN)	mg KOH/g	■ 9.2	---	---	---
Oxidation (PA)	%	■ 80	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. No other contaminants were detected 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 %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 68	---	---	---
Sulfation (PA)	%	■ 59	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.5	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ <1	---	---	---



WEAR METALS

Iron	ppm	■ 6	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 50	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ <1	---	---	---



ADDITIVES

Calcium	ppm	■ 1694	---	---	---
Magnesium	ppm	■ 531	---	---	---
Zinc	ppm	■ 1107	---	---	---
Phosphorus	ppm	■ 909	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 45	---	---	---

Depot: VOLVO0090
Unique No: 10577344
Signed: Sean Felton
Report Date: 01 Aug 2023



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GRAPHS

