



CONSTRUCTION EQUIPMENT

VOLVO A40G 752249 - DIESEL ENGINE



Sample No: VCP450598
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP450598	---	---	---
Sample Date	24 May 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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	● 10.8	---	---	---
Base Number (BN)	mg KOH/g	■ 4.5	---	---	---
Oxidation (PA)	%	■ 62	---	---	---

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. Valve wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. Tests indicate that there is no fuel present 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

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	■ 78	---	---	---
Sulfation (PA)	%	■ 59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	▲ 36	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 5	---	---	---



WEAR METALS

Iron	ppm	■ 26	---	---	---
Copper	ppm	■ 265	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 113	---	---	---
Nickel	ppm	▲ 6	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 2700	---	---	---
Magnesium	ppm	■ 75	---	---	---
Zinc	ppm	■ 1503	---	---	---
Phosphorus	ppm	■ 1253	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 16	---	---	---

Depot: VOLVO0090
Unique No: 11059525
Signed: Sean Felton
Report Date: 05 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS

