



CONSTRUCTION EQUIPMENT

225984 IAA GRAHAM VOLVO L90H 623923 - DIESEL ENGINE



Sample No: VCP368583
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 225984 IAA GRAHAM



SAMPLE INFORMATION

Sample Number	VCP368583	---	---	---
Sample Date	25 Apr 2024	---	---	---
Machine Hours	10901	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

PACWEST MACHINERY

8207 SOUTH 216TH STREET
 KENT, WA
 US 98032
 Contact: DAN SLAGLE
 dslagle@pacwestmachinery.com
 T: (206)482-4179
 F: (509)534-5286



OIL CONDITION

Visc @ 100°C	cSt	█ 14.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	77	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.9	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 40	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 55	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	● 20	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 45	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1753	---	---	---
Magnesium	ppm	█ 542	---	---	---
Zinc	ppm	█ 1173	---	---	---
Phosphorus	ppm	█ 1011	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 25	---	---	---

Depot: VOLVO1271
Unique No: 11015842
Signed: Don Baldrige
Report Date: 08 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

