



CONSTRUCTION EQUIPMENT

SWA535999 VOLVO A40G 35385 - DIESEL ENGINE



Sample No: VCP455206
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA535999



SAMPLE INFORMATION

Sample Number	VCP455206	VCP436594	---	---
Sample Date	22 Apr 2024	08 Dec 2023	---	---
Machine Hours	1588	1012	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	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	● 11.6	▲ 10.6	---	---
Base Number (BN)	mg KOH/g	■ 7.3	■ 4.5	---	---
Oxidation (PA)	%	70	64	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.2	■ 0.3	---	---
Nitration (PA)	%	72	78	---	---
Sulfation (PA)	%	60	64	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.5	---	---
Silicon	ppm	■ 8	▲ 28	---	---
Sodium	ppm	■ 2	■ 3	---	---
Potassium	ppm	■ 0	■ 4	---	---

Diagnosis

The oil 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 no indication of any contamination 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.



WEAR METALS

Iron	ppm	■ 11	■ 27	---	---
Copper	ppm	■ 76	■ 194	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ 2	■ 4	---	---
Aluminum	ppm	■ 2	■ 3	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 54	■ 80	---	---
Nickel	ppm	■ <1	■ 3	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 1	■ 3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1528	■ 2008	---	---
Magnesium	ppm	■ 606	81	---	---
Zinc	ppm	■ 1122	■ 1189	---	---
Phosphorus	ppm	■ 945	■ 973	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 16	■ 14	---	---

Depot: VOLVO0090
Unique No: 10992778
Signed: Jonathan Hester
Report Date: 25 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

