



CONSTRUCTION EQUIPMENT

SWA400037 MULCH CENT VOLVO L90D 64482 - DIESEL ENGINE



Sample No: VCP339956
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA400037 MULCH CENT



SAMPLE INFORMATION

Sample Number	VCP339956	---	---	---
Sample Date	30 Oct 2023	---	---	---
Machine Hours	26602	---	---	---
Oil Hours	2	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT

2500 WESTWARD DR
 SPRING GROVE, IL
 US 60081
 Contact: EVAN RICKERT
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 T: (630)465-3464
 F:



OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	73	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Tests do not reveal cause for reported problem. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 137	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 5	---	---	---



WEAR METALS

Iron	ppm	█ 16	---	---	---
Copper	ppm	█ 14	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1542	---	---	---
Magnesium	ppm	█ 634	---	---	---
Zinc	ppm	█ 964	---	---	---
Phosphorus	ppm	█ 748	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 79	---	---	---

Depot: ALTSPR
Unique No: 10726695
Signed: Don Baldrige
Report Date: 06 Nov 2023



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GRAPHS

