



CONSTRUCTION EQUIPMENT

SPM593868 TRICON VOLVO A40E 13525 - DIESEL ENGINE



Sample No: VCP424690
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM593868 TRICON



SAMPLE INFORMATION

Sample Number	VCP424690	VCP174251	VCP167890	---
Sample Date	09 Aug 2023	23 Mar 2015	02 Dec 2014	---
Machine Hours	9607	3025	2518	---
Oil Hours	0	500	400	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	NORMAL	NORMAL	---

ALTA CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.8	■ 12.71	■ 13.11	---
Base Number (BN)	mg KOH/g	■ 10.3	---	---	---
Oxidation (PA)	%	74	■ 52	■ 44	---

Diagnosis

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. Fuel content negligible. 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.



CONTAMINATION

Soot %	%	■ 0.2	■ 0.4	■ 0.4	---
Nitration (PA)	%	42	■ 50	■ 42	---
Sulfation (PA)	%	58	■ 47	■ 47	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 0.5	<1.0	<1.0	---
Silicon	ppm	■ 4	■ 3	■ 3	---
Sodium	ppm	■ 2	■ 10	■ 6	---
Potassium	ppm	■ 0	■ <1	■ <1	---



WEAR METALS

Iron	ppm	■ 4	■ 19	■ 19	---
Copper	ppm	■ 0	■ <1	■ <1	---
Lead	ppm	■ 0	■ <1	■ 0	---
Tin	ppm	■ <1	■ <1	■ <1	---
Aluminum	ppm	■ <1	■ 1	■ 1	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ 37	■ 44	■ 46	---
Nickel	ppm	■ 0	■ <1	■ 1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	■ 0	0	0	---
Manganese	ppm	■ <1	■ 1	■ <1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	■ 1776	■ 1370	■ 1381	---
Magnesium	ppm	■ 478	■ 766	■ 836	---
Zinc	ppm	■ 1108	■ 988	■ 1004	---
Phosphorus	ppm	■ 910	■ 892	■ 883	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 63	■ 32	■ 33	---

Depot: VOLVO5055
Unique No: 10645896
Signed: Don Baldrige
Report Date: 18 Sep 2023



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GRAPHS

