



CONSTRUCTION EQUIPMENT

11300 VOLVO A40G 352622 - DIESEL ENGINE



Sample No: VCP430652
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 11300



SAMPLE INFORMATION

Sample Number	VCP430652	VCP411913	---	---
Sample Date	13 Oct 2023	26 Jul 2023	---	---
Machine Hours	5196	4725	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
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 US 19341
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	▲ 11.7	---	---
Base Number (BN)	mg KOH/g	■ 5.7	■ 5.7	---	---
Oxidation (PA)	%	55	59	---	---

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. 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 %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	56	63	---	---
Sulfation (PA)	%	52	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 1.9	---	---
Silicon	ppm	■ 8	■ 7	---	---
Sodium	ppm	■ 0	■ <1	---	---
Potassium	ppm	■ 1	■ 1	---	---



WEAR METALS

Iron	ppm	■ 4	■ 6	---	---
Copper	ppm	■ 3	■ 9	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ <1	■ 0	---	---
Molybdenum	ppm	■ 75	■ 68	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 0	■ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	■ 1281	■ 1517	---	---
Magnesium	ppm	■ 293	■ 319	---	---
Zinc	ppm	■ 1067	■ 1154	---	---
Phosphorus	ppm	■ 959	■ 916	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 332	■ 287	---	---

Depot: VOLVO8879
Unique No: 10708834
Signed: Don Baldrige
Report Date: 25 Oct 2023



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GRAPHS

