



CONSTRUCTION EQUIPMENT

393638-40 HRJ CONT VOLVO A30G 752406 - DIESEL ENGINE



Sample No: VCP410037
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 393638-40 HRJ CONT



SAMPLE INFORMATION

Sample Number	VCP410037	VCP425503	---	---
Sample Date	29 Jan 2024	03 May 2023	---	---
Machine Hours	4086	2552	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

ALTA EQUIPMENT COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	■ 12.7	---	---
Base Number (BN)	mg KOH/g	■ 10.2	■ 6.5	---	---
Oxidation (PA)	%	80	66	---	---

Diagnosis

No corrective action is recommended at this time. 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

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.4	■ 1	---	---
Nitration (PA)	%	63	73	---	---
Sulfation (PA)	%	61	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.4	<1.0	---	---
Silicon	ppm	■ 5	■ 11	---	---
Sodium	ppm	■ 3	■ <1	---	---
Potassium	ppm	■ <1	■ 3	---	---



WEAR METALS

Iron	ppm	■ 6	■ 31	---	---
Copper	ppm	■ 15	▲ 63	---	---
Lead	ppm	■ 2	■ 2	---	---
Tin	ppm	■ 1	■ 3	---	---
Aluminum	ppm	■ 3	■ 1	---	---
Chromium	ppm	■ <1	■ 2	---	---
Molybdenum	ppm	■ 37	■ 61	---	---
Nickel	ppm	■ <1	■ 1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ <1	■ <1	---	---
Manganese	ppm	■ <1	■ 2	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	■ 1542	■ 1707	---	---
Magnesium	ppm	■ 465	■ 406	---	---
Zinc	ppm	■ 1028	■ 1227	---	---
Phosphorus	ppm	■ 871	■ 957	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 26	■ 4	---	---

Depot: VOLVO0095
Unique No: 10858567
Signed: Jonathan Hester
Report Date: 05 Feb 2024



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GRAPHS

