



CONSTRUCTION EQUIPMENT

737235 MARTIN MARIET VOLVO A60H 350249 - DIESEL ENGINE



Sample No: VCP443392
Oil Type: CHEVRON 15W40
Job No: 737235 MARTIN MARIET



SAMPLE INFORMATION

Sample Number	VCP443392	VCP392633	VCP411271	---
Sample Date	02 Feb 2024	03 Aug 2023	09 Mar 2023	---
Machine Hours	3003	2004	1029	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	ATTENTION	ATTENTION	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.4	▲ 11.7	▲ 10.3	---
Base Number (BN)	mg KOH/g	■ 7.5	■ 8.2	■ 5.4	---
Oxidation (PA)	%	68	65	70	---

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

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.4	■ 0.4	■ 0.5	---
Nitration (PA)	%	67	61	89	---
Sulfation (PA)	%	63	63	64	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 3.6	<1.0	■ 2.7	---
Silicon	ppm	■ 8	■ 5	▲ 28	---
Sodium	ppm	■ 0	■ 2	■ 2	---
Potassium	ppm	■ 2	■ 0	■ 3	---



WEAR METALS

Iron	ppm	■ 10	■ 5	■ 30	---
Copper	ppm	■ 5	■ 15	■ 214	---
Lead	ppm	■ 1	■ <1	■ <1	---
Tin	ppm	■ 2	■ 1	■ 4	---
Aluminum	ppm	■ 3	■ 1	■ 4	---
Chromium	ppm	■ 1	■ <1	■ 2	---
Molybdenum	ppm	■ 122	■ 116	■ 99	---
Nickel	ppm	■ 2	■ <1	■ 4	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	■ <1	■ 0	■ 0	---
Manganese	ppm	■ 2	■ <1	■ 2	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	■ 1490	■ 1461	■ 2099	---
Magnesium	ppm	■ 635	■ 632	■ 120	---
Zinc	ppm	■ 842	■ 813	■ 1075	---
Phosphorus	ppm	■ 705	■ 679	■ 864	---
Barium	ppm	■ 0	■ 0	■ 2	---
Boron	ppm	■ 329	■ 247	■ 38	---

Depot: VOLVO0088
Unique No: 10869642
Signed: Jonathan Hester
Report Date: 09 Feb 2024



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GRAPHS

