



CONSTRUCTION EQUIPMENT

2928 VOLVO A40G 353407 - DIESEL ENGINE



Sample No: VCP312514
Oil Type: MOBIL 15W40
Job No: 2928



SAMPLE INFORMATION

Sample Number	VCP312514	VCP312575	---	---
Sample Date	06 Nov 2023	03 Oct 2023	---	---
Machine Hours	756	504	---	---
Oil Hours	252	504	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	▲ 11.1	---	---
Base Number (BN)	mg KOH/g	6.8	■ 5.7	---	---
Oxidation (PA)	%	61	56	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	■ 0.2	---	---
Nitration (PA)	%	70	78	---	---
Sulfation (PA)	%	52	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.5	---	---
Silicon	ppm	9	■ 29	---	---
Sodium	ppm	2	■ 4	---	---
Potassium	ppm	<1	■ 5	---	---



WEAR METALS

Iron	ppm	5	■ 22	---	---
Copper	ppm	▲ 113	▲ 425	---	---
Lead	ppm	<1	■ <1	---	---
Tin	ppm	<1	■ 3	---	---
Aluminum	ppm	2	■ 4	---	---
Chromium	ppm	0	■ <1	---	---
Molybdenum	ppm	115	■ 87	---	---
Nickel	ppm	<1	■ 2	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	■ 0	---	---
Manganese	ppm	<1	■ 3	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1421	■ 2122	---	---
Magnesium	ppm	609	■ 48	---	---
Zinc	ppm	957	■ 1189	---	---
Phosphorus	ppm	747	■ 1030	---	---
Barium	ppm	0	■ 0	---	---
Boron	ppm	112	■ 43	---	---

Depot: SCHGRE
Unique No: 10755195
Signed: Jonathan Hester
Report Date: 27 Nov 2023



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GRAPHS

