



CONSTRUCTION EQUIPMENT

VOLVO A40G 752009 - DIESEL ENGINE



Sample No: VCP440663
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP440663	VCP398087	VCP312961	---
Sample Date	29 Nov 2023	30 Oct 2023	12 Sep 2023	---
Machine Hours	907	777	482	---
Oil Hours	210	295	482	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.7	▲ 11.3	---
Base Number (BN)	mg KOH/g	7.4	7.2	6.7	---
Oxidation (PA)	%	58	60	58	---

Diagnosis

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 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	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	65	69	80	---
Sulfation (PA)	%	49	50	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.5	---
Silicon	ppm	5	5	25	---
Sodium	ppm	3	1	2	---
Potassium	ppm	<1	<1	3	---



WEAR METALS

Iron	ppm	4	4	14	---
Copper	ppm	4	17	▲ 440	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	<1	3	---
Aluminum	ppm	4	3	4	---
Chromium	ppm	<1	0	0	---
Molybdenum	ppm	139	115	87	---
Nickel	ppm	<1	2	1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1373	1301	2156	---
Magnesium	ppm	730	676	69	---
Zinc	ppm	961	905	1167	---
Phosphorus	ppm	770	722	977	---
Barium	ppm	0	0	0	---
Boron	ppm	154	118	39	---

Depot: SCHGRE
Unique No: 10780136
Signed: Don Baldrige
Report Date: 13 Dec 2023



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GRAPHS

