



CONSTRUCTION EQUIPMENT

VOLVO A40G 352198 - DIESEL ENGINE



Sample No: VCP402951
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP402951	VCP405726	VCP362755	---
Sample Date	01 Aug 2023	19 Jun 2023	12 May 2023	---
Machine Hours	4135	3898	3666	---
Oil Hours	237	232	214	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.5	12.7	---
Base Number (BN)	mg KOH/g	10.3	9.9	10.4	---
Oxidation (PA)	%	79	78	56	---

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

Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	50	48	48	---
Sulfation (PA)	%	60	60	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	4	4	---
Sodium	ppm	3	2	1	---
Potassium	ppm	0	<1	4	---



WEAR METALS

Iron	ppm	3	4	5	---
Copper	ppm	<1	2	3	---
Lead	ppm	0	0	1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	<1	<1	2	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	41	44	57	---
Nickel	ppm	<1	<1	1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	1690	1681	1157	---
Magnesium	ppm	515	604	1000	---
Zinc	ppm	891	1031	1300	---
Phosphorus	ppm	768	849	1006	---
Barium	ppm	0	0	0	---
Boron	ppm	62	59	6	---

Depot: SCHGRE
Unique No: 10617104
Signed: Wes Davis
Report Date: 24 Aug 2023



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GRAPHS

