



CONSTRUCTION EQUIPMENT

VOLVO A40G 342253 - DIESEL ENGINE



Sample No: VCP442847
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP442847	VCP442504	VCP442859	VCP395092
Sample Date	11 Mar 2024	05 Feb 2024	06 Dec 2023	30 Oct 2023
Machine Hours	11433	11196	10949	10697
Oil Hours	237	247	252	274
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.5	12.7	12.7
Base Number (BN)	mg KOH/g	9.7	8.4	7.0	7.0
Oxidation (PA)	%	75	69	59	61



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	54	58	68	70
Sulfation (PA)	%	58	55	50	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	7	5
Sodium	ppm	6	7	18	12
Potassium	ppm	4	7	13	8



WEAR METALS

Iron	ppm	4	5	4	4
Copper	ppm	1	1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	5	3	7	4
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	56	80	132	111
Nickel	ppm	1	1	1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1566	1426	1289	1280
Magnesium	ppm	524	553	687	679
Zinc	ppm	896	851	902	900
Phosphorus	ppm	767	775	736	732
Barium	ppm	0	12	0	0
Boron	ppm	69	96	140	100

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.

Depot: SCHGRE
Unique No: 10937556
Signed: Wes Davis
Report Date: 21 Mar 2024



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GRAPHS

