



CONSTRUCTION EQUIPMENT

VOLVO A40G 342658 - DIESEL ENGINE



Sample No: VCP447438
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP447438	VCP433284	VCP416950	VCP312842
Sample Date	29 Apr 2024	02 Apr 2024	13 Feb 2024	11 Dec 2023
Machine Hours	10764	10545	10200	9899
Oil Hours	219	345	301	217
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	12.7	12.8	12.8	12.9
Base Number (BN)	mg KOH/g	9.7	8.6	7.9	6.9
Oxidation (PA)	%	76	72	67	59

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	NEG
Soot %	%	0.2	0.3	0.2	0.2
Nitration (PA)	%	52	66	66	68
Sulfation (PA)	%	59	56	55	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	6	5
Sodium	ppm	2	4	4	3
Potassium	ppm	<1	3	2	2



WEAR METALS

Iron	ppm	3	6	7	4
Copper	ppm	2	2	2	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	6	6	5	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	50	73	82	123
Nickel	ppm	0	<1	1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1733	1512	1242	1226
Magnesium	ppm	537	548	507	651
Zinc	ppm	929	905	791	845
Phosphorus	ppm	820	800	625	751
Barium	ppm	0	0	34	0
Boron	ppm	73	82	77	122

Depot: SCHGRE
Unique No: 11018426
Signed: Wes Davis
Report Date: 09 May 2024



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VOLVO GRAPHS

