



CONSTRUCTION EQUIPMENT

VOLVO A40G 340668 - DIESEL ENGINE



Sample No: VCP416807
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP416807	VCP312532	VCP405247	VCP405985
Sample Date	08 Feb 2024	04 Dec 2023	24 Oct 2023	12 Sep 2023
Machine Hours	17181	16909	16708	16380
Oil Hours	272	201	328	267
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	13.4	13.2	13.3	12.8
Base Number (BN)	mg KOH/g	6.9	7.1	7.9	9.7
Oxidation (PA)	%	85	76	92	96



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.4	0.3
Nitration (PA)	%	99	91	93	76
Sulfation (PA)	%	64	60	67	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	16	16	10	6
Sodium	ppm	4	1	4	1
Potassium	ppm	3	3	3	<1



WEAR METALS

Iron	ppm	17	11	9	6
Copper	ppm	2	<1	<1	<1
Lead	ppm	1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	7	6	6	3
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	109	118	97	44
Nickel	ppm	1	1	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1344	1366	1550	1753
Magnesium	ppm	601	656	656	506
Zinc	ppm	882	903	1004	968
Phosphorus	ppm	683	751	810	787
Barium	ppm	34	11	<1	0
Boron	ppm	85	110	68	49

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 acceptable for the time in service.

Depot: SCHGRE
Unique No: 10898181
Signed: Don Baldrige
Report Date: 27 Feb 2024



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GRAPHS

