



CONSTRUCTION EQUIPMENT

2806 VOLVO A40G 352025 - DIESEL ENGINE



Sample No: VCP331586
Oil Type: MOBIL 15W40
Job No: 2806



SAMPLE INFORMATION

Sample Number	VCP331586	VCP341883	VCP405660	VCP404833
Sample Date	06 Nov 2023	03 Oct 2023	21 Aug 2023	13 Jul 2023
Machine Hours	9810	9594	9271	9075
Oil Hours	216	323	196	271
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	12.9	12.5	12.4	12.6
Base Number (BN)	mg KOH/g	6.9	8.5	10.5	10.1
Oxidation (PA)	%	62	70	78	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	68	58	49	52
Sulfation (PA)	%	51	54	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.5	<1.0
Silicon	ppm	5	5	3	4
Sodium	ppm	2	3	2	<1
Potassium	ppm	<1	1	<1	2



WEAR METALS

Iron	ppm	<1	4	3	3
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	3	4	<1	1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	115	86	30	53
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1327	1812	1460	2084
Magnesium	ppm	693	685	428	604
Zinc	ppm	931	1106	758	1123
Phosphorus	ppm	715	941	607	963
Barium	ppm	0	0	2	2
Boron	ppm	119	85	51	73

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: 10755191
Signed: Jonathan Hester
Report Date: 27 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

