



CONSTRUCTION EQUIPMENT

2806 VOLVO A40G 352025 - DIESEL ENGINE



Sample No: VCP312934
Oil Type: MOBIL 15W40
Job No: 2806



SAMPLE INFORMATION

Sample Number	VCP312934	VCP331586	VCP341883	VCP405660
Sample Date	11 Dec 2023	06 Nov 2023	03 Oct 2023	21 Aug 2023
Machine Hours	10033	9810	9594	9271
Oil Hours	92	216	323	196
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	13.2	12.9	12.5	12.4
Base Number (BN)	mg KOH/g	7.2	6.9	8.5	10.5
Oxidation (PA)	%	58	62	70	78



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	59	68	58	49
Sulfation (PA)	%	50	51	54	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	5	5	5	3
Sodium	ppm	1	2	3	2
Potassium	ppm	2	<1	1	<1



WEAR METALS

Iron	ppm	1	<1	4	3
Copper	ppm	0	<1	<1	0
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	3	4	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	106	115	86	30
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1259	1327	1812	1460
Magnesium	ppm	602	693	685	428
Zinc	ppm	821	931	1106	758
Phosphorus	ppm	753	715	941	607
Barium	ppm	0	0	0	2
Boron	ppm	122	119	85	51

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: 10806384
Signed: Don Baldrige
Report Date: 28 Dec 2023



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GRAPHS

