



CONSTRUCTION EQUIPMENT

2862 VOLVO A40G 352351 - DIESEL ENGINE



Sample No: VCP331549
Oil Type: MOBIL 15W40
Job No: 2862



SAMPLE INFORMATION

Sample Number	VCP331549	VCP339693	VCP406109	VCP406466
Sample Date	07 Nov 2023	03 Oct 2023	24 Aug 2023	13 Jul 2023
Machine Hours	7750	7502	7188	6886
Oil Hours	248	314	302	274
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	12.3	12.4
Base Number (BN)	mg KOH/g	6.8	7.9	10.2	9.9
Oxidation (PA)	%	62	67	80	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	70	62	53	52
Sulfation (PA)	%	51	53	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	6	3
Sodium	ppm	4	4	5	0
Potassium	ppm	2	2	2	2



WEAR METALS

Iron	ppm	2	3	4	3
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	4	1	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	118	84	37	43
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1323	1422	1655	1663
Magnesium	ppm	698	584	536	479
Zinc	ppm	933	890	864	900
Phosphorus	ppm	707	753	736	764
Barium	ppm	0	0	2	2
Boron	ppm	120	79	50	58

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: 10755190
Signed: Jonathan Hester
Report Date: 27 Nov 2023



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GRAPHS

