



CONSTRUCTION EQUIPMENT

2826 VOLVO A40G 342608 - DIESEL ENGINE



Sample No: VCP331576
Oil Type: MOBIL 15W40
Job No: 2826



SAMPLE INFORMATION

Sample Number	VCP331576	VCP331546	VCP339701	VCP405670
Sample Date	11 Dec 2023	06 Nov 2023	03 Oct 2023	21 Aug 2023
Machine Hours	11060	10895	10659	10330
Oil Hours	165	236	329	296
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.0	12.6	12.4
Base Number (BN)	mg KOH/g	6.7	7.0	8.1	10.1
Oxidation (PA)	%	59	63	72	82

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	68	72	63	56
Sulfation (PA)	%	50	52	55	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	4	5	4	4
Sodium	ppm	5	14	4	4
Potassium	ppm	5	7	2	2

WEAR METALS

Iron	ppm	3	3	4	4
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	4	4	3	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	120	115	70	37
Nickel	ppm	2	<1	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1207	1340	1468	1657
Magnesium	ppm	636	705	551	523
Zinc	ppm	831	963	888	863
Phosphorus	ppm	749	736	744	729
Barium	ppm	0	0	0	2
Boron	ppm	121	130	56	41

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: 10806382
Signed: Don Baldrige
Report Date: 28 Dec 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

