



CONSTRUCTION EQUIPMENT

VOLVO A40G 341476 - DIESEL ENGINE



Sample No: VCP312520
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312520	VCP404731	VCP406000	VCP406127
Sample Date	04 Dec 2023	24 Oct 2023	12 Sep 2023	01 Aug 2023
Machine Hours	17394	17166	16932	16630
Oil Hours	228	234	302	275
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	12.8	12.9
Base Number (BN)	mg KOH/g	6.8	7.8	9.5	9.4
Oxidation (PA)	%	73	78	94	94



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	84	77	72	72
Sulfation (PA)	%	56	58	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	5
Sodium	ppm	<1	4	<1	3
Potassium	ppm	2	2	1	0



WEAR METALS

Iron	ppm	4	3	4	3
Copper	ppm	<1	<1	<1	0
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	3	4	2	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	112	100	44	43
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1324	1426	1737	1833
Magnesium	ppm	633	641	505	551
Zinc	ppm	873	953	970	960
Phosphorus	ppm	720	776	782	814
Barium	ppm	11	<1	0	0
Boron	ppm	112	80	47	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: 10782830
Signed: Don Baldrige
Report Date: 15 Dec 2023



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GRAPHS

