



CONSTRUCTION EQUIPMENT

VOLVO A40G 342374 - DIESEL ENGINE



Sample No: VCP441996
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP441996	VCP445793	VCP398006	VCP400060
Sample Date	19 Dec 2023	06 Dec 2023	29 Aug 2023	20 Jul 2023
Machine Hours	10915	10857	10584	10329
Oil Hours	58	273	255	206
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.7	12.3	12.6
Base Number (BN)	mg KOH/g	8.8	7.4	9.8	10.2
Oxidation (PA)	%	67	68	76	79



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.1	0.1
Nitration (PA)	%	51	65	49	49
Sulfation (PA)	%	55	54	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.6	<1.0
Silicon	ppm	6	6	4	3
Sodium	ppm	7	37	8	6
Potassium	ppm	7	29	4	8



WEAR METALS

Iron	ppm	4	12	<1	2
Copper	ppm	<1	2	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	5	1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	73	95	37	42
Nickel	ppm	2	▲ 14	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1401	1508	1592	1666
Magnesium	ppm	534	620	513	479
Zinc	ppm	826	938	872	883
Phosphorus	ppm	757	757	753	761
Barium	ppm	12	0	0	2
Boron	ppm	98	99	44	57

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: 10876038
Signed: Sean Felton
Report Date: 15 Feb 2024



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VOLVO GRAPHS

