



CONSTRUCTION EQUIPMENT

VOLVO A40G 352566 - DIESEL ENGINE



Sample No: VCP401928
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP401928	VCP384399	VCP398290	VCP386308
Sample Date	13 Jul 2023	30 May 2023	27 Apr 2023	06 Mar 2023
Machine Hours	3940	3634	3468	3021
Oil Hours	306	226	387	318
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	12.7	12.6
Base Number (BN)	mg KOH/g	10.1	9.8	8.6	10.1
Oxidation (PA)	%	80	80	76	78



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	53	55	53	55
Sulfation (PA)	%	60	62	55	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	6	4
Sodium	ppm	0	2	1	3
Potassium	ppm	2	0	0	<1



WEAR METALS

Iron	ppm	4	3	5	8
Copper	ppm	<1	<1	<1	1
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	<1	<1	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	43	40	42	40
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1689	1694	1840	1694
Magnesium	ppm	489	499	536	486
Zinc	ppm	913	897	920	907
Phosphorus	ppm	776	722	804	766
Barium	ppm	2	0	0	2
Boron	ppm	53	53	52	65

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: 10586117
Signed: Jonathan Hester
Report Date: 03 Aug 2023



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GRAPHS

