



CONSTRUCTION EQUIPMENT

2863 VOLVO A40G 352341 - DIESEL ENGINE



Sample No: VCP339712
Oil Type: MOBIL 15W40
Job No: 2863



SAMPLE INFORMATION

Sample Number	VCP339712	VCP312555	VCP405986	VCP406468
Sample Date	07 Nov 2023	03 Oct 2023	24 Aug 2023	13 Jul 2023
Machine Hours	6865	6606	6283	5997
Oil Hours	259	323	286	295
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.7	12.4	12.6
Base Number (BN)	mg KOH/g	7.1	8.1	10.1	9.9
Oxidation (PA)	%	61	67	80	80

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	67	59	52	53
Sulfation (PA)	%	51	52	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	4	4
Sodium	ppm	5	2	2	0
Potassium	ppm	2	1	1	1

WEAR METALS

Iron	ppm	2	3	3	3
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	4	4	2	1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	118	86	36	42
Nickel	ppm	0	0	0	0
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	1329	1449	1641	1683
Magnesium	ppm	700	591	514	476
Zinc	ppm	930	900	853	895
Phosphorus	ppm	699	771	720	761
Barium	ppm	0	0	2	2
Boron	ppm	105	75	45	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 suitable for further service.

Depot: SCHGRE
Unique No: 10755199
Signed: Jonathan Hester
Report Date: 27 Nov 2023

VOLVO **GRAPHS**

