



CONSTRUCTION EQUIPMENT

SPM659044-10 VOLVO A40G 341625 - DIESEL ENGINE



Sample No: VCP442655
Oil Type: MOBIL 15W40
Job No: SPM659044-10



SAMPLE INFORMATION

Sample Number	VCP442655	VCP393578	VCP344735	VCP313553
Sample Date	11 Jan 2024	17 Mar 2023	12 Oct 2021	05 May 2021
Machine Hours	8515	7472	5457	4645
Oil Hours	0	2015	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.1	12.6	12.6
Base Number (BN)	mg KOH/g	9.1	8.0	---	---
Oxidation (PA)	%	78	66	79	86

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	68	77	64	64
Sulfation (PA)	%	58	55	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.5	<1.0	<1.0
Silicon	ppm	5	5	9	4
Sodium	ppm	2	4	2	1
Potassium	ppm	2	2	6	0



WEAR METALS

Iron	ppm	8	13	17	9
Copper	ppm	4	2	2	4
Lead	ppm	2	3	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	3	3	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	52	47	42
Nickel	ppm	1	2	2	2
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	1557	1281	1758	1710
Magnesium	ppm	597	722	505	480
Zinc	ppm	1147	1140	1007	1142
Phosphorus	ppm	991	955	883	975
Barium	ppm	0	2	0	0
Boron	ppm	27	7	29	45

Depot: VOLVO0090
Unique No: 10834657
Signed: Wes Davis
Report Date: 18 Jan 2024



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GRAPHS

