



CONSTRUCTION EQUIPMENT

W07012961 VOLVO A45G 342044 - DIESEL ENGINE



Sample No: VCP367765
Oil Type: MOBIL 15W40
Job No: W07012961



SAMPLE INFORMATION

Sample Number	VCP367765	VCP396724	VCP401309	VCP389103
Sample Date	28 Jun 2023	02 May 2023	02 Feb 2023	26 Oct 2022
Machine Hours	9226	8800	8248	7830
Oil Hours	500	0	0	700
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	12.6	12.9
Base Number (BN)	mg KOH/g	8.1	6.2	7.2	7.1
Oxidation (PA)	%	65	69	69	79



CONTAMINATION

Soot %	%	0.4	0.5	0.4	0.7
Nitration (PA)	%	83	83	86	93
Sulfation (PA)	%	54	53	55	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	5
Sodium	ppm	13	4	2	3
Potassium	ppm	2	3	1	3

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.



WEAR METALS

Iron	ppm	7	8	8	15
Copper	ppm	2	4	6	6
Lead	ppm	0	<1	<1	2
Tin	ppm	0	1	<1	<1
Aluminum	ppm	1	1	2	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	48	46	54	43
Nickel	ppm	0	1	1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1327	1260	1187	1411
Magnesium	ppm	748	718	679	555
Zinc	ppm	917	933	870	933
Phosphorus	ppm	758	701	652	696
Barium	ppm	0	0	0	2
Boron	ppm	33	35	30	35

Depot: VOLVO8882
Unique No: 10563376
Signed: Jonathan Hester
Report Date: 20 Jul 2023



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GRAPHS

