



CONSTRUCTION EQUIPMENT

W07013767 VOLVO A45G 342044 - DIESEL ENGINE



Sample No: VCP407646

Oil Type: MOBIL 15W40

Job No: W07013767



SAMPLE INFORMATION

Sample Number	VCP407646	VCP367765	VCP396724	VCP401309
Sample Date	10 Nov 2023	28 Jun 2023	02 May 2023	02 Feb 2023
Machine Hours	9892	9226	8800	8248
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.8	13.1	12.6
Base Number (BN)	mg KOH/g	6.4	8.1	6.2	7.2
Oxidation (PA)	%	72	65	69	69



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0.5	0.4
Nitration (PA)	%	87	83	83	86
Sulfation (PA)	%	58	54	53	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	4
Sodium	ppm	3	13	4	2
Potassium	ppm	1	2	3	1



WEAR METALS

Iron	ppm	7	7	8	8
Copper	ppm	1	2	4	6
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	1	<1
Aluminum	ppm	3	1	1	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	44	48	46	54
Nickel	ppm	<1	0	1	1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	1150	1327	1260	1187
Magnesium	ppm	694	748	718	679
Zinc	ppm	840	917	933	870
Phosphorus	ppm	674	758	701	652
Barium	ppm	0	0	0	0
Boron	ppm	16	33	35	30

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: VOLVO8882
Unique No: 10756825
Signed: Sean Felton
Report Date: 29 Nov 2023



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VOLVO GRAPHS

