



CONSTRUCTION EQUIPMENT

13764 STANLEY VOLVO A45G 342403 - DIESEL ENGINE



Sample No: VCP409489
Oil Type: SHELL 15W40
Job No: 13764 STANLEY



SAMPLE INFORMATION

Sample Number	VCP409489	VCP418133	VCP332250	VCP389101
Sample Date	29 Nov 2023	11 Jul 2023	27 Mar 2023	27 Oct 2022
Machine Hours	7608	6966	0	5504
Oil Hours	0	500	0	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.1	13.1	12.9
Base Number (BN)	mg KOH/g	5.6	6.4	7.6	6.8
Oxidation (PA)	%	80	67	78	87

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.3	0.5
Nitration (PA)	%	98	88	98	100
Sulfation (PA)	%	62	61	59	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	7	4
Sodium	ppm	0	4	7	4
Potassium	ppm	2	0	1	2

WEAR METALS

Iron	ppm	12	11	13	13
Copper	ppm	2	1	2	2
Lead	ppm	<1	1	<1	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	2	3
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	53	41	84	48
Nickel	ppm	1	<1	1	1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1

ADDITIVES

Calcium	ppm	1418	2217	2010	1379
Magnesium	ppm	590	218	1192	612
Zinc	ppm	942	1237	1525	959
Phosphorus	ppm	703	1019	1181	733
Barium	ppm	0	0	0	2
Boron	ppm	21	44	44	38

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: 10769481
Signed: Wes Davis
Report Date: 06 Dec 2023



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VOLVO GRAPHS

