



CONSTRUCTION EQUIPMENT

SWA265271 RENTAL VOLVO A45G 342479 - DIESEL ENGINE



Sample No: VCP398005
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA265271 RENTAL



SAMPLE INFORMATION

Sample Number	VCP398005	VCP401396	VCP387341	VCP364833
Sample Date	19 May 2023	15 Mar 2023	27 Oct 2022	24 Aug 2022
Machine Hours	8369	7800	6690	6068
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.8	13.1	13.1
Base Number (BN)	mg KOH/g	8.4	7.6	9.7	9.7
Oxidation (PA)	%	57	56	63	64



CONTAMINATION

Soot %	%	0.4	0.3	0.3	0.5
Nitration (PA)	%	66	59	71	73
Sulfation (PA)	%	51	48	56	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	4	3
Sodium	ppm	0	0	5	3
Potassium	ppm	2	1	1	0



WEAR METALS

Iron	ppm	9	8	8	6
Copper	ppm	<1	<1	1	1
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	0	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	63	74	69	61
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1069	1085	1068	1010
Magnesium	ppm	909	820	912	883
Zinc	ppm	1207	1147	1225	1233
Phosphorus	ppm	1019	950	1010	995
Barium	ppm	0	2	2	3
Boron	ppm	0	24	10	0

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: VOLVO5055
Unique No: 10589088
Signed: Wes Davis
Report Date: 08 Aug 2023



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VOLVO GRAPHS

