



CONSTRUCTION EQUIPMENT

SWA311400 RENTAL VOLVO A45G 352069 - DIESEL ENGINE



Sample No: VCP409123
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA311400 RENTAL



SAMPLE INFORMATION

Sample Number	VCP409123	VCP384506	VCP371595	VCP338641
Sample Date	22 Jul 2023	11 Nov 2022	05 Jul 2022	13 May 2022
Machine Hours	6609	4949	4040	3550
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	13.1	12.8	12.8	12.9
Base Number (BN)	mg KOH/g	8.5	10.2	9.6	8.5
Oxidation (PA)	%	56	64	66	66



CONTAMINATION

Soot %	%	0.4	0.3	0.5	0.5
Nitration (PA)	%	63	69	78	79
Sulfation (PA)	%	52	57	60	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	4
Sodium	ppm	0	3	<1	1
Potassium	ppm	2	<1	1	0



WEAR METALS

Iron	ppm	9	6	7	13
Copper	ppm	<1	<1	2	2
Lead	ppm	<1	1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	2	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	69	66	74
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1054	1134	1122	1198
Magnesium	ppm	914	992	891	989
Zinc	ppm	1216	1346	1219	1230
Phosphorus	ppm	1025	1050	1034	1064
Barium	ppm	0	0	0	0
Boron	ppm	0	10	3	13

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: 10589096
Signed: Wes Davis
Report Date: 08 Aug 2023



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VOLVO GRAPHS

