



CONSTRUCTION EQUIPMENT

SWA311403 RENTAL VOLVO A45G 342486 - DIESEL ENGINE



Sample No: VCP409122
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA311403 RENTAL



SAMPLE INFORMATION

Sample Number	VCP409122	VCP403208	VCP387209	VCP371775
Sample Date	27 Jul 2023	09 Mar 2023	29 Oct 2022	05 Aug 2022
Machine Hours	8804	7628	7020	6436
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	13.5	12.6	13.2	13.2
Base Number (BN)	mg KOH/g	8.6	8.7	10.1	9.3
Oxidation (PA)	%	55	60	63	65



CONTAMINATION

Soot %	%	0.4	0.5	0.5	0.6
Nitration (PA)	%	60	68	70	77
Sulfation (PA)	%	51	55	57	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	2	3	6
Sodium	ppm	6	3	5	7
Potassium	ppm	4	2	1	<1



WEAR METALS

Iron	ppm	7	10	7	9
Copper	ppm	<1	2	1	2
Lead	ppm	<1	1	1	2
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	2	3	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	65	66	86
Nickel	ppm	<1	1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1069	1172	1059	1125
Magnesium	ppm	911	968	943	942
Zinc	ppm	1208	1310	1260	1265
Phosphorus	ppm	1028	1099	1035	1056
Barium	ppm	0	2	2	0
Boron	ppm	0	<1	3	28

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: 10589092
Signed: Wes Davis
Report Date: 08 Aug 2023



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VOLVO GRAPHS

