



CONSTRUCTION EQUIPMENT

VOLVO A45G 342539 - DIESEL ENGINE



Sample No: VCP0007575

Oil Type: NOT GIVEN

Job No:



SAMPLE INFORMATION

Sample Number	VCP0007575	VCP331625	VCP314607	VCP288390
Sample Date	06 Jul 2023	01 Dec 2021	15 Mar 2021	28 Sep 2020
Machine Hours	0	4272	3145	2517
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	12.5	12.5
Base Number (BN)	mg KOH/g	8.5	10.1	---	---
Oxidation (PA)	%	64	79	88	84



CONTAMINATION

Soot %	%	0.3	0.4	0.4	0.3
Nitration (PA)	%	72	66	74	66
Sulfation (PA)	%	57	61	68	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	4
Sodium	ppm	1	5	2	3
Potassium	ppm	1	0	<1	1



WEAR METALS

Iron	ppm	9	9	12	10
Copper	ppm	3	2	11	58
Lead	ppm	2	2	<1	<1
Tin	ppm	1	1	<1	<1
Aluminum	ppm	3	2	0	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	64	40	43	39
Nickel	ppm	<1	0	1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1843	1690	1561	1620
Magnesium	ppm	443	531	476	497
Zinc	ppm	1342	1092	1023	1049
Phosphorus	ppm	1097	950	884	896
Barium	ppm	0	0	0	0
Boron	ppm	<1	34	29	28

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. 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: QUALITFL
Unique No: 10548996
Signed: Wes Davis
Report Date: 11 Jul 2023



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GRAPHS

