



CONSTRUCTION EQUIPMENT

23-06 VOLVO A45G 342633 - DIESEL ENGINE



Sample No: VCP294731
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 23-06



SAMPLE INFORMATION

Sample Number	VCP294731	VCP296957	VCP141021	VCP216306
Sample Date	23 May 2024	01 Sep 2022	12 Jul 2021	16 Feb 2021
Machine Hours	3902	2792	1351	798
Oil Hours	480	493	553	311
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	13.1	12.4	12.8
Base Number (BN)	mg KOH/g	8.1	7.5	---	---
Oxidation (PA)	%	50	44	48	45

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.4	0.1
Nitration (PA)	%	66	71	68	59
Sulfation (PA)	%	52	55	58	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.3	<1.0
Silicon	ppm	4	6	7	7
Sodium	ppm	<1	2	2	2
Potassium	ppm	2	0	<1	14

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.

WEAR METALS

Iron	ppm	18	11	15	10
Copper	ppm	5	6	205	21
Lead	ppm	<1	5	1	<1
Tin	ppm	1	2	2	0
Aluminum	ppm	3	2	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	8	9	13
Nickel	ppm	2	2	2	2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	1	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	2	0	0

ADDITIVES

Calcium	ppm	1403	2267	2159	2327
Magnesium	ppm	623	84	109	192
Zinc	ppm	1119	1042	1042	1053
Phosphorus	ppm	945	927	851	946
Barium	ppm	<1	0	0	0
Boron	ppm	8	<1	8	9

Depot: GLOPLE
Unique No: 11085933
Signed: Wes Davis
Report Date: 19 Jun 2024



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GRAPHS

