



CONSTRUCTION EQUIPMENT

VFS VOLVO A40G 342632 - DIESEL ENGINE



Sample No: VCP440922
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: VFS



SAMPLE INFORMATION

Sample Number	VCP440922	VCP348941	VCP326633	VCP309574
Sample Date	29 Apr 2024	03 Feb 2022	26 Aug 2021	06 May 2021
Machine Hours	7835	6440	6439	5981
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 1350 NE LOOP 820
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OIL CONDITION

Visc @ 100°C	cSt	13.0	14.2	11.8	12.6
Base Number (BN)	mg KOH/g	8.4	12.6	---	---
Oxidation (PA)	%	63	79	50	84

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	50	48	61	68
Sulfation (PA)	%	56	62	48	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.6	<1.0
Silicon	ppm	7	8	3	4
Sodium	ppm	<1	2	2	2
Potassium	ppm	1	0	<1	<1

WEAR METALS

Iron	ppm	12	5	5	7
Copper	ppm	3	6	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	<1	2	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	79	38	44	48
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1526	1540	1474	1679
Magnesium	ppm	462	515	773	497
Zinc	ppm	1314	1062	1015	1066
Phosphorus	ppm	1093	897	887	933
Barium	ppm	0	0	0	0
Boron	ppm	454	73	49	40

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: VOLVO0081
Unique No: 11021138
Signed: Wes Davis
Report Date: 10 May 2024



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GRAPHS

