



CONSTRUCTION EQUIPMENT

VOLVO A40G 340716 - DIESEL ENGINE



Sample No: VCP419111
Oil Type: DIESEL ENGINE OIL SAE 30
Job No:



SAMPLE INFORMATION

Sample Number	VCP419111	VCP402276	VCP365631	VCP363637
Sample Date	30 Aug 2023	26 Apr 2023	23 Nov 2022	23 Aug 2022
Machine Hours	8929	8381	7881	7326
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.3	12.2	11.7
Base Number (BN)	mg KOH/g	8.9	8.3	10.8	10.3
Oxidation (PA)	%	80	75	88	82

CONTAMINATION

Soot %	%	0.1	0.2	0.3	0.2
Nitration (PA)	%	67	58	74	68
Sulfation (PA)	%	59	54	65	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	6	5	4
Sodium	ppm	3	2	2	<1
Potassium	ppm	2	<1	0	0

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	6	6	7	6
Copper	ppm	1	0	<1	<1
Lead	ppm	<1	0	1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	1	2	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	41	41	41	46
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1736	1584	1650	1486
Magnesium	ppm	567	493	512	546
Zinc	ppm	1214	1063	1062	919
Phosphorus	ppm	953	864	861	746
Barium	ppm	0	0	0	<1
Boron	ppm	25	55	36	32

Depot: SAIBIR
Unique No: 10642996
Signed: Don Baldrige
Report Date: 13 Sep 2023

VOLVO **GRAPHS**

