



CONSTRUCTION EQUIPMENT

VOLVO A40G 340716 - DIESEL ENGINE



Sample No: VCP428966
Oil Type: DIESEL ENGINE OIL SAE 30
Job No:



SAMPLE INFORMATION

Sample Number	VCP428966	VCP419111	VCP402276	VCP365631
Sample Date	05 Dec 2023	30 Aug 2023	26 Apr 2023	23 Nov 2022
Machine Hours	9440	8929	8381	7881
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	12.3	12.1	12.3	12.2
Base Number (BN)	mg KOH/g	7.8	8.9	8.3	10.8
Oxidation (PA)	%	70	80	75	88



CONTAMINATION

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



WEAR METALS

Iron	ppm	7	6	6	7
Copper	ppm	<1	1	0	<1
Lead	ppm	<1	<1	0	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	3	2	1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	85	41	41	41
Nickel	ppm	1	<1	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1398	1736	1584	1650
Magnesium	ppm	565	567	493	512
Zinc	ppm	871	1214	1063	1062
Phosphorus	ppm	700	953	864	861
Barium	ppm	11	0	0	0
Boron	ppm	66	25	55	36

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.

Depot: SAIBIR
Unique No: 10782876
Signed: Don Baldrige
Report Date: 15 Dec 2023

VOLVO **GRAPHS**

