



CONSTRUCTION EQUIPMENT

SW0065912 VOLVO A30G 752677 - DIESEL ENGINE



Sample No: VCP433844
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWO065912



SAMPLE INFORMATION

Sample Number	VCP433844	VCP424298	VCP368402	VCP330124
Sample Date	18 Sep 2023	23 Jun 2023	18 Nov 2022	11 Aug 2022
Machine Hours	1919	2405	915	434
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	MARGINAL	ABNORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.6	11.01
Base Number (BN)	mg KOH/g	9.8	10.1	10.3	7.8
Oxidation (PA)	%	76	81	86	61



CONTAMINATION

Soot %	%	0.3	0.3	0.4	0.3
Nitration (PA)	%	53	58	75	82
Sulfation (PA)	%	60	64	68	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	5	6	12	56
Sodium	ppm	2	3	<1	0
Potassium	ppm	<1	2	2	4



WEAR METALS

Iron	ppm	8	9	23	21
Copper	ppm	8	40	284	499
Lead	ppm	0	1	<1	<1
Tin	ppm	<1	1	2	3
Aluminum	ppm	<1	0	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	42	40	52	94
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	1	2
Manganese	ppm	<1	<1	2	4
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1840	1563	1871	2181
Magnesium	ppm	532	447	445	63
Zinc	ppm	1161	1006	1168	1197
Phosphorus	ppm	951	828	975	1035
Barium	ppm	0	1	2	0
Boron	ppm	49	51	37	76

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: SAIBIR
Unique No: 10658578
Signed: Don Baldrige
Report Date: 22 Sep 2023



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GRAPHS

