



CONSTRUCTION EQUIPMENT

SW-20300-2 IAA VOLVO L90G 3095 - DIESEL ENGINE



Sample No: VCP419275
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-20300-2 IAA



SAMPLE INFORMATION

Sample Number	VCP419275	VCP337849	VCP347197	VCP340962
Sample Date	21 Jun 2023	23 Aug 2022	26 Jan 2022	07 Dec 2021
Machine Hours	16672	16118	15315	15057
Oil Hours	500	800	250	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	13.1	12.6
Base Number (BN)	mg KOH/g	9.5	10.1	11.7	10
Oxidation (PA)	%	67	94	87	76



CONTAMINATION

Soot %	%	0.5	0.6	0.2	0.4
Nitration (PA)	%	73	86	55	64
Sulfation (PA)	%	56	65	66	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	6
Sodium	ppm	6	3	2	10
Potassium	ppm	3	0	<1	0



WEAR METALS

Iron	ppm	21	16	9	12
Copper	ppm	2	1	3	<1
Lead	ppm	1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	3	3	2
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	64	42	38	40
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1264	1638	1723	1690
Magnesium	ppm	983	525	529	521
Zinc	ppm	1318	1007	1050	1081
Phosphorus	ppm	1076	814	936	944
Barium	ppm	<1	<1	0	0
Boron	ppm	4	32	59	41

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: VOLVO8770
Unique No: 10535842
Signed: Don Baldrige
Report Date: 30 Jun 2023



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GRAPHS

