



CONSTRUCTION EQUIPMENT

R22890 IAA VOLVO L90H 623898 - DIESEL ENGINE



Sample No: VCP390256
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: R22890 IAA



SAMPLE INFORMATION

Sample Number	VCP390256	VCP390246	VCP383603	VCP337124
Sample Date	22 Aug 2023	20 Mar 2023	18 Oct 2022	15 Nov 2021
Machine Hours	11670	11193	10459	9382
Oil Hours	0	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.5	12.6	13.9
Base Number (BN)	mg KOH/g	9.8	10.3	10.5	---
Oxidation (PA)	%	80	85	82	96



CONTAMINATION

Soot %	%	0.5	0.9	0.8	0.4
Nitration (PA)	%	58	77	68	79
Sulfation (PA)	%	60	65	65	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	7	6
Sodium	ppm	2	2	2	4
Potassium	ppm	0	0	0	<1



WEAR METALS

Iron	ppm	8	16	9	10
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	4	4	3	2
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	42	47	56	40
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1872	1864	1660	1818
Magnesium	ppm	553	582	517	520
Zinc	ppm	1258	1270	1115	1093
Phosphorus	ppm	1028	1037	876	961
Barium	ppm	0	0	0	0
Boron	ppm	35	34	32	27

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: HOFPISNJ
Unique No: 10620533
Signed: Wes Davis
Report Date: 28 Aug 2023



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VOLVO GRAPHS

