



CONSTRUCTION EQUIPMENT

620884 IAA VOLVO L90H 623580 - DIESEL ENGINE



Sample No: VCP440249
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 620884 IAA



SAMPLE INFORMATION

Sample Number	VCP440249	VCP427175	VCP392969	VCP382257
Sample Date	17 Oct 2023	23 Jun 2023	27 Feb 2023	07 Nov 2022
Machine Hours	12999	12505	11996	11575
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	13.2	13.1
Base Number (BN)	mg KOH/g	10.2	10.2	10.6	11.2
Oxidation (PA)	%	82	81	82	89



CONTAMINATION

Soot %	%	0.3	0.4	0.3	0.3
Nitration (PA)	%	61	66	62	72
Sulfation (PA)	%	60	60	60	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	3	4
Sodium	ppm	3	4	0	2
Potassium	ppm	0	2	<1	2



WEAR METALS

Iron	ppm	3	5	4	6
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	3	2	3	4
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	42	48	41	43
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1649	1703	1630	1679
Magnesium	ppm	534	593	481	508
Zinc	ppm	1146	1186	1077	1109
Phosphorus	ppm	863	973	907	912
Barium	ppm	0	<1	<1	0
Boron	ppm	32	31	40	30

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: VOLVO0096
Unique No: 10711599
Signed: Wes Davis
Report Date: 26 Oct 2023



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GRAPHS

