



CONSTRUCTION EQUIPMENT

400616 WM VOLVO L90H 624438 - DIESEL ENGINE



Sample No: VCP431652
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 400616 WM



SAMPLE INFORMATION

Sample Number	VCP431652	VCP432735	VCP417658	VCP422233
Sample Date	27 Oct 2023	01 Sep 2023	10 Jul 2023	16 May 2023
Machine Hours	12363	11842	11301	10677
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	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	12.5	12.4	12.6
Base Number (BN)	mg KOH/g	10.0	9.5	9.7	10.0
Oxidation (PA)	%	84	84	86	80



CONTAMINATION

Soot %	%	0.4	0.4	0.4	0.2
Nitration (PA)	%	65	67	68	58
Sulfation (PA)	%	61	61	62	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	3.6	<1.0
Silicon	ppm	15	22	25	10
Sodium	ppm	0	3	4	0
Potassium	ppm	1	0	0	<1



WEAR METALS

Iron	ppm	7	9	6	4
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	5	12	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	42	45	45
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1587	1800	1852	1629
Magnesium	ppm	525	529	535	492
Zinc	ppm	1106	1163	1150	1092
Phosphorus	ppm	924	964	961	922
Barium	ppm	4	0	0	0
Boron	ppm	24	22	25	33

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: 10724922
Signed: Wes Davis
Report Date: 03 Nov 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

