



CONSTRUCTION EQUIPMENT

SPM606176 VOLVO L90H 625943 - DIESEL ENGINE



Sample No: VCP397179
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM606176



SAMPLE INFORMATION

Sample Number	VCP397179	VCP370183	VCP387886	VCP338854
Sample Date	18 Sep 2023	17 Mar 2023	13 Sep 2022	17 Jan 2022
Machine Hours	3432	2574	1559	756
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471



OIL CONDITION

Visc @ 100°C	cSt	13.5	14.1	14.0	13.5
Base Number (BN)	mg KOH/g	9.8	9.6	11.6	10.8
Oxidation (PA)	%	92	95	91	84



CONTAMINATION

Soot %	%	0.5	1.4	1.1	1.1
Nitration (PA)	%	79	97	83	75
Sulfation (PA)	%	66	68	69	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	7	15
Sodium	ppm	2	3	3	4
Potassium	ppm	<1	0	0	2



WEAR METALS

Iron	ppm	15	48	49	94
Copper	ppm	1	2	2	10
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	1	2	3
Aluminum	ppm	<1	8	9	26
Chromium	ppm	<1	2	3	8
Molybdenum	ppm	41	44	40	42
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	1	1	4
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1872	1902	1620	1610
Magnesium	ppm	548	579	504	599
Zinc	ppm	1213	1228	1106	1109
Phosphorus	ppm	935	977	862	973
Barium	ppm	0	0	<1	3
Boron	ppm	39	23	29	39

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: VOLVO0142
Unique No: 10660832
Signed: Wes Davis
Report Date: 26 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS

