



CONSTRUCTION EQUIPMENT

730037 IAA VOLVO L90H 624528 - DIESEL ENGINE



Sample No: VCP410020
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 730037 IAA



SAMPLE INFORMATION

Sample Number	VCP410020	VCP406190	VCP323912	VCP290480
Sample Date	14 Jun 2024	19 Jan 2023	26 May 2021	17 Dec 2020
Machine Hours	7630	5591	4115	3459
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY
 5210 REESE ROAD
 DAVIE, FL
 US 33314
 Contact: N. FACEY
 nfacey@altaequipfl.com
 T: (954)581-4744
 F: (954)583-0318



OIL CONDITION

Visc @ 100°C	cSt	14.8	14.7	14.0	14.1
Base Number (BN)	mg KOH/g	8.0	10.7	---	---
Oxidation (PA)	%	83	92	94	82



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.1	1.3	0.9	0.8
Nitration (PA)	%	108	99	92	96
Sulfation (PA)	%	65	68	68	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	6	6
Sodium	ppm	1	3	4	3
Potassium	ppm	<1	1	2	2



WEAR METALS

Iron	ppm	15	22	17	14
Copper	ppm	<1	1	1	1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	8	8	6
Chromium	ppm	<1	2	1	1
Molybdenum	ppm	63	49	38	30
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1258	1908	1860	1785
Magnesium	ppm	1064	554	522	647
Zinc	ppm	1320	1263	1146	1166
Phosphorus	ppm	1087	1031	982	948
Barium	ppm	0	3	0	0
Boron	ppm	0	13	31	24

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: VOLVO0095
Unique No: 11087196
Signed: Don Baldrige
Report Date: 21 Jun 2024



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GRAPHS

