



CONSTRUCTION EQUIPMENT

5375DR IAA VOLVO L90H 623051 - DIESEL ENGINE



Sample No: VCP428635
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 5375DR IAA



SAMPLE INFORMATION

Sample Number	VCP428635	VCP202471	VCP202002	VCP186741
Sample Date	04 Apr 2024	21 Mar 2017	15 Nov 2016	20 Jan 2016
Machine Hours	14014	3066	2479	1061
Oil Hours	500	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

HIGHWAY EQUIPMENT & SUPPLY CO
 PO BOX 127
 DRUMS, PA
 US 18222
 Contact: JUSTIN BLOSS
 justin@hwyequip.com
 T: (570)788-1127
 F: (570)708-2933



OIL CONDITION

Visc @ 100°C	cSt	13.1	14.77	14.2	14.1
Base Number (BN)	mg KOH/g	8.9	---	---	---
Oxidation (PA)	%	70	56	56	52



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.1	0.1	0.1
Nitration (PA)	%	70	58	58	50
Sulfation (PA)	%	57	50	47	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	8	7	10
Sodium	ppm	<1	6	9	7
Potassium	ppm	<1	1	<1	1



WEAR METALS

Iron	ppm	12	22	17	31
Copper	ppm	<1	2	1	4
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	2	2
Aluminum	ppm	4	10	7	8
Chromium	ppm	<1	1	1	2
Molybdenum	ppm	36	49	53	43
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	1	1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1903	1310	1391	1339
Magnesium	ppm	406	820	837	772
Zinc	ppm	1129	1018	1081	981
Phosphorus	ppm	926	820	830	898
Barium	ppm	0	<1	<1	0
Boron	ppm	32	26	32	29

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: VOLVO0022
Unique No: 10968755
Signed: Wes Davis
Report Date: 11 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

