



CONSTRUCTION EQUIPMENT

730054 IAA - DIESEL ENGINE



Sample No: VCP439818
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 730054 IAA



SAMPLE INFORMATION

Sample Number	VCP439818	VCP278631	VCP248189	VCP194929
Sample Date	17 Jun 2024	11 Aug 2020	05 Apr 2019	01 Sep 2017
Machine Hours	13010	12325	11889	8828
Oil Hours	0	0	11889	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	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	13.3	13.2	14.22	13.94
Base Number (BN)	mg KOH/g	8.7	---	---	---
Oxidation (PA)	%	73	85	80	40



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.7	1.9	0.3
Nitration (PA)	%	48	79	71	42
Sulfation (PA)	%	57	62	68	42
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	6	6
Sodium	ppm	56	49	45	71
Potassium	ppm	2	1	0	2



WEAR METALS

Iron	ppm	23	30	22	15
Copper	ppm	3	2	<1	2
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	0	7
Aluminum	ppm	▲ 26	15	4	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	39	51	39	43
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1583	1733	1690	1677
Magnesium	ppm	471	554	505	573
Zinc	ppm	1119	972	834	889
Phosphorus	ppm	938	775	704	702
Barium	ppm	0	0	0	0
Boron	ppm	61	33	23	14

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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: 11098946
Signed: Jonathan Hester
Report Date: 27 Jun 2024



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GRAPHS

