

Sample No: VCP454096

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: 646226 BARTON MALLON

SAMPLE II	NFORMATION				
Sample Number		VCP454096	VCP403674	VCP386822	VCP363236
Sample Date		04 Jan 2024	10 Jan 2023	04 Aug 2022	26 May 2022
Machine Hours		5588	3604	2582	2069
Oil Hours		500	500	500	500
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
Sample Status		ADITORIVIAL	NONWAL	NONVIAL	NONVIAL
VOLVO					
OIL CONDI	TION				
Visc @ 100°C	cSt	13.1	■13.0	■12.8	■13.2
Base Number (BN)	mg KOH/g	7.1	9.1	■9.8	■9.5
Oxidation (PA)	%	75	65	66	61
CONTAMIN	MATION				
_	_	NEC	NEC	NEC	NEC
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	0.2	0.2	0.2
Nitration (PA)	%	83	63	70	68
Sulfation (PA)	%	58	54	59	53
Glycol - ·	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■3	3	2	3
Sodium	ppm	2	2	 <1	2
Potassium	ppm	■<1	< 1	1	 <1
VOLVO					
WEAR ME	TALS				
Iron	ppm	7	■8	7	7
Copper	ppm	<u>^</u> 201	1	12	1 2
Lead	ppm	2	■ <1	□ <1	= <1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	■ <1	0	1	= <1
Chromium	ppm	0	1 <1	0	= <1
Molybdenum	ppm	■ 54	□ 55	60	■ 58
Nickel	ppm		2	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	0	0	0
Manganese	ppm	■ <1	□ <1	□ <1	□ <1
Vanadium	ppm	0	0	0	0
		-	Ü	, and the second	ū
VOLVO	<u>. </u>				
ADDITIVE:	7				

1270

865

1273

1012

0

1057

888

1226

1011

0

3

1169

1032

1204

■1086

0

12



ALTA EQUIPMENT COMPANY - METRO WEST 56195 PONTIAC TRAIL NEW HUDSON, MI US 48165 Contact: PAUL CONZ paul.conz@altg.com T: (313)348-8861 F: (248)356-2029

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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:
 VOLVO2990

 Unique No:
 10845935

 Signed:
 Sean Felton

 Report Date:
 26 Jan 2024

ppm

ppm

ppm

ppm

ppm

ppm

1238

798

1133

917

0

11

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus



CONSTRUCTION EQUIPMENT





