Sample No: VCP436296

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

**Job No:** SWO-070832

VOLVO SAMDIFIN	NFORMATION				
_	NI UNITATION	VCP436296	VCP445721	VCP428983	VCP424718
Sample Number					
Sample Date		01 Apr 2024	13 Nov 2023	31 Aug 2023	02 May 2023
Machine Hours		6670 0	6283	5911	5181
Oil Hours		-	-	-	Changed
Oil Changed		Changed	Changed	Changed	
Sample Status		ABNORMAL	SEVERE	MARGINAL	NORMAL
VOLVO					
OIT CONDI.	TION				
Visc @ 100°C	cSt	<b>11.5</b>	<b>▲</b> 7.5	12.2	<b>13.7</b>
Base Number (BN)	mg KOH/g	<b>10.0</b>	<b>7.2</b>	■9.9	■8.7
Oxidation (PA)	%	80	66	82	86
CONTAMIN	IATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	NEG ■ 0.2	NEG ■0.2	NEG ■ 0.4	NEG ■ 0.5
Nitration (PA)	%	61	70	83	85
. ,		60	52	60	60
Sulfation (PA)	%				
Glycol	%	NEG	NEG A 35.0	NEG	NEG
Fuel		<b>▲</b> 4.9	25.0	▲ 3.5	<1.0
Silicon	ppm	<b>6</b>	<b>6</b>	7	8
Sodium	ppm	<b>2</b>	2	<b>3</b>	2
Potassium	ppm	<b>■2</b>	<b>0</b>	<b>2</b>	< 1
VOLVO					
WEAR ME'	TALS				
ron	ppm	<b>1</b> 6	<b>5</b>	<b>1</b> 0	■19
Copper	ppm	<b>1</b>	<b>-</b> <1	■3	■32
.ead	ppm	<b></b>	<b>2</b>	■3	<b>2</b>
Гin	ppm	<b>-</b> <1	<b>-</b> <1	<b>-</b> <1	<b>-</b> <1
Aluminum	ppm	<b>4</b>	<b>2</b>	<b>3</b>	<b>4</b>
Chromium	ppm	<b>1</b>	<b>-</b> <1	<b></b> <1	<b></b> <1
Molybdenum	ppm	<b>41</b>	<b>■</b> 32	■48	<b>□</b> 53
Nickel	ppm	<b>-</b> <1	<b>-</b> <1	<b>0</b>	0
Γitanium	ppm	<1	0	0	<1
Silver	ppm	<b>■</b> 0	0	■0	<b>0</b>
Manganese	ppm	<b>-&lt;1</b>	<b>-</b> <1	<b>1</b>	<b></b> <1
/anadium	ppm	<1	0	0	0
ADDITIVES	7				
_		=4554	1072	E 1647	<b>—</b> 1707
Calcium	ppm	<b>■</b> 1551	1072	1647	1787
Magnesium 	ppm	<b>483</b>	<b>458</b>	706	714
Zinc	ppm	<b>■</b> 1031	<b>■</b> 846	■ 1317 ■ 2006	1225
Phosphorus	ppm	<b>■</b> 851	690	□996	1004

**0** 

**0** 

0

**20** 

## WHITAKER CONTRACTING

692 CONVICT CAMP RD GUNTERSVILLE, AL US 35976

Contact: BROTHER WHITAKER
BrotherWhitaker@whitaker-contracting.com
T: (256)298-3905
F:

## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

Depot: WHIGUN
Unique No: 10963046
Signed: Wes Davis
Report Date: 08 Apr 2024

Contact/Location: BROTHER WHITAKER - WHIGUN

ppm

ppm

**0** 

**47** 

Barium

Boron



## **CONSTRUCTION EQUIPMENT**





