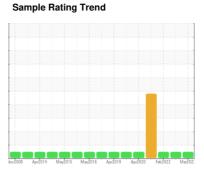


# **OIL ANALYSIS REPORT**

# **Boat Deck** VOLVO D4 300A-D G5-83111 (S/N 2004031582)

**Diesel Engine** 

**VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (10 LTR)** 





### DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

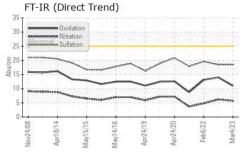
### **Fluid Condition**

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

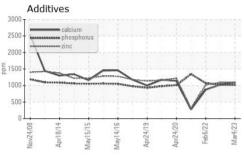
0 VD3-3 (10 L1h	,	40V2000 Ap	12014 may2015 may20	io Apizoto Apizozo Peozi	ZZ WIBIZUZ:	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0700683	WC0700670	WC0490576
Sample Date		Client Info		04 Mar 2023	10 Sep 2022	06 Feb 2022
Machine Age	hrs	Client Info		1019	957	864
Oil Age	hrs	Client Info		62	93	164
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	5	5	4
Chromium	ppm	ASTM D5185(m)	>6	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	1	<1
Lead	ppm	ASTM D5185(m)	>95	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>85	<1	2	2
Tin	ppm	ASTM D5185(m)	>9	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2.5	2	4	12
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	58	57	51
Manganese	ppm	ASTM D5185(m)	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	256	942	916	865
Calcium	ppm	ASTM D5185(m)	2057	1089	1024	875
Phosphorus	ppm	ASTM D5185(m)	935	1016	1022	1071
Zinc	ppm	ASTM D5185(m)		1088	1095	1017
Sulfur Lithium	ppm	ASTM D5185(m) ASTM D5185(m)	4079	2693 <1	2650 <1	2799 0
	ppm	· · ·	11 10 11			
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	5
Sodium	ppm	ASTM D5185(m)	00	3	3	3
Potassium	ppm	ASTM D5185(m)	>20	0	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.7	6.2	4.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	18.5	19.6

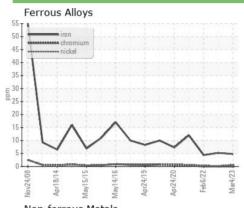


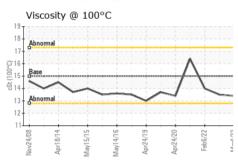
## **OIL ANALYSIS REPORT**

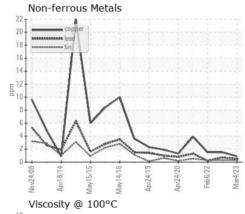


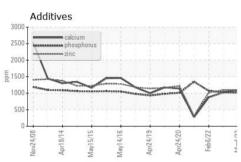


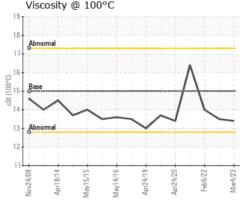


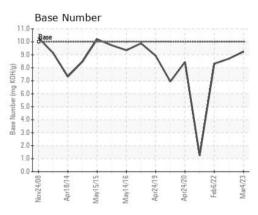














CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number : 02550794 Unique Number : 5555804

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0700683

Test Package : MAR 2

Received : 12 Apr 2023 Tested : 12 Apr 2023 Diagnosed

: 13 Apr 2023 - Kevin Marson

**CANADIAN COAST GUARD** CCGS GRIFFON, PO BOX 1000, 401 KING ST.W Prescott, ON **CA K6V 5T3** 

Contact: Laurie Bosley Laurie.Bosley@dfo-mpo.gc.ca T:

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Laurie Bosley - GRIFFON