

Current

VCP436677

09 Apr 2024

1876

0

History1

07 Dec 2023

1188

0

0

N/A

N/A

6

0

0

0

0

0

<1

74

0

0

11

0

<1.0

NEG

NEG

0.1

8.4

22.5

NONE

NONE

NONE

History2

11 Aug 2023

Changed

Changed

18

<1

<1

0

0

2

<1

265 2

0

27 2

1.5

0.1

8.0 20.9

NONE NONE

NONE

NEG NEG

NONE

NONE

640

0

0

ABNORMAL ABNORMAL

VCP405371 VCP418619

Limit/Abn



WEAR

normal.

The copper level h

of other significant

than wear (i.e. coo

**CONTAMIN** 

There is no indicat

## VOLVO EC480EL 315150

**Diesel Engine** 

## VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

Test

Sample Number

Sample Date

Machine Age

Oil Age

UOM

hrs

hrs

Method

Client Info

**Client Info** 

Client Info

Client Info

RECOMMENDATION

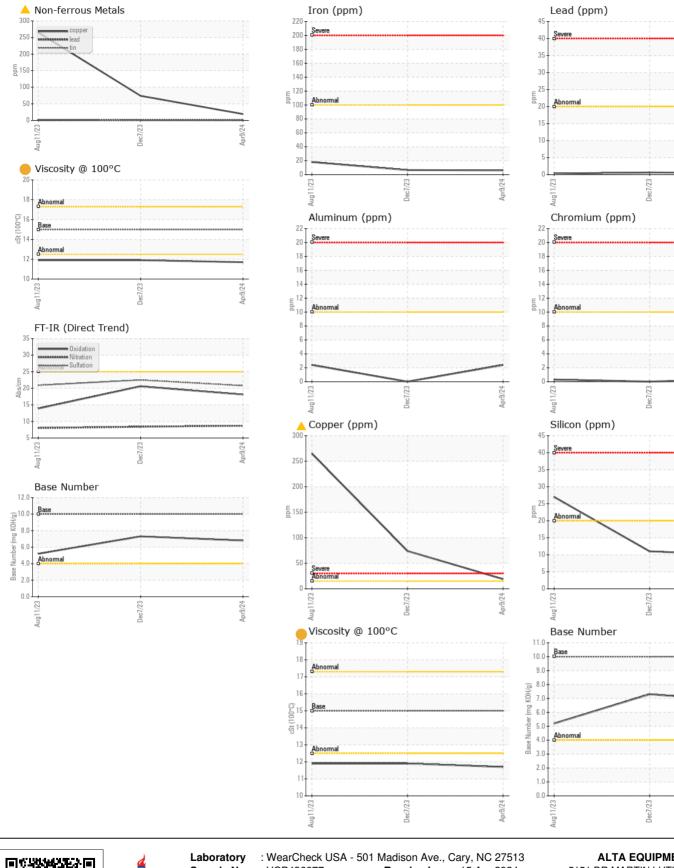
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

	0				
	Filter Age	hrs	Client Info		0
	Oil Changed		Client Info		Changed
	Filter Changed		Client Info		Changed
	Sample Status				ABNORMAL
	Iron	ppm	ASTM D5185m	<100	6
	Chromium		ASTM D5185m		۰ <1
nas decreased, but is still abnormal. In the absence	Nickel	ppm		>10	
t wear metals, suspect copper due to sources other		ppm		>10	<1
pling core). All other component wear rates are	Titanium	ppm	ASTM D5185m	0	<1
	Silver	ppm		>2	0
	Aluminum	ppm	ASTM D5185m		2
	Lead	ppm	ASTM D5185m	>20	<1
	Copper	ppm	ASTM D5185m	>15	<b>A</b> 19
	Tin	ppm	ASTM D5185m	>10	1
	Vanadium	ppm	ASTM D5185m		0
	White Metal	scalar	*Visual	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE
ATION	Silicon	ppm	ASTM D5185m	>20	10
	Potassium	ppm	ASTM D5185m	>20	2
tion of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0
	Water		WC Method	>0.1	NEG
	Glycol		WC Method		NEG
	Soot %	%	*ASTM D7844	>3	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8
	Silt	scalar	*Visual	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Boono	ooului	VIOLICI	TOTAL		HOHL	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		<1	<1	2
Boron	ppm	ASTM D5185m	2.5	5	14	2
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.7	59	48	23
Manganese	ppm	ASTM D5185m	0.0	<1	<1	3
Magnesium	ppm	ASTM D5185m	256	800	451	151
Calcium	ppm	ASTM D5185m	2057	1422	1691	2136
Phosphorus	ppm	ASTM D5185m	935	1013	844	903
Zinc	ppm	ASTM D5185m	1223	1224	1046	1108
Sulfur	ppm	ASTM D5185m	4079	3061	3095	3847
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	20.6	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.8	7.3	5.2
Visc @ 100°C	cSt	ASTM D445	15.0	11.7	11.9	11.9



ALTA EQUIPMENT COMPANY Sample No. Received 5151 DR MARTIN LUTHER KING BLVD : VCP436677 : 15 Apr 2024 Lab Number : 06148364 FORT MYERS, FL Tested : 15 Apr 2024 : 17 Apr 2024 - Sean Felton US 33905 Unique Number : 10978442 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: TODD LARK Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tlark@altaequipfl.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: (239)481-3302 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: TODD LARK - VOLVO0090 Page 2 of 2

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