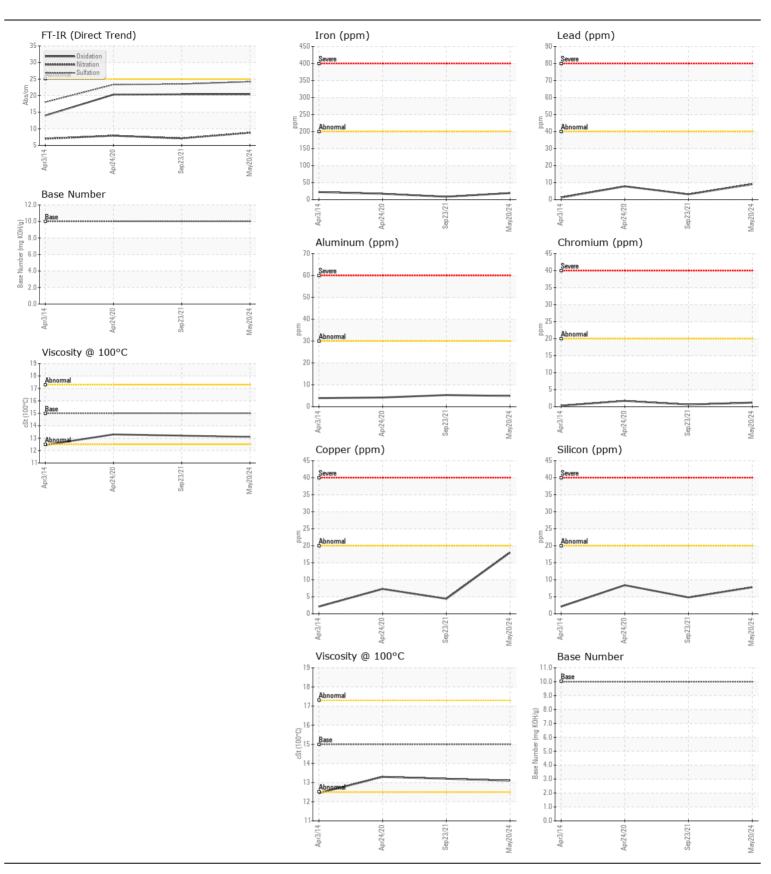
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

## [41782 COVIA] VOLVO L180C 61057 Component Diesel Engine



					/		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP453791	VCP337085	VCP239710
	Sample Date		Client Info		20 May 2024	23 Sep 2021	24 Apr 2020
	Machine Age	hrs	Client Info		4333	3040	0
	Oil Age	hrs	Client Info		0	0	500
	Filter Age Oil Changed	hrs	Client Info		Ohammad	0	0 Changed
	Filter Changed		Client Info		Changed	N/A N/A	Changed N/A
	Sample Status		Client into		Changed NORMAL	NORMAL	NORMAL
······							
WEAR	Iron	ppm	ASTM D5185m	>200	19	8	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	<1	2
	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>30	5	5	4
	Lead	ppm	ASTM D5185m		9	3	8
	Copper	ppm	ASTM D5185m		18	4	7
	Tin	ppm	ASTM D5185m	>20	3	1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8	5	8
SCHTAMINATION	Potassium	ppm	ASTM D5185m		3	<1	2
There is no indication of any contamination in the oil.	Fuel	pp	WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	7.1	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	23.5	23.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	3
I LOID CONDITION	Boron	ppm	ASTM D5185m	2.5	260	134	148
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		96	62	75
	Manganese	ppm		0.0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		584	543	667
	Calcium	ppm	ASTM D5185m		1691	1634	1882
	Phosphorus	ppm	ASTM D5185m	935	948	850	754
	Zinc	ppm	ASTM D5185m		1186	969	904
	Sulfur	ppm	ASTM D5185m	4079	3189	2293	2022
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	20.4	20.3
	Base Number (BN)	mg KOH/g	ASTM D2896	10	9.0		
	Visc @ 100°C	cSt	ASTM D445	15.0	13.1	13.2	13.3





Laboratory Sample No. Unique Number : 11045508

: VCP453791 Lab Number : 06188756

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 23 May 2024 **Tested** : 24 May 2024 : 28 May 2024 - Sean Felton Diagnosed

215 - ASCENDUM MACHINERY INC - CAYCE 2303 AIRPORT BLVD CAYCE, SC

US 29033 Contact: TAMI BROWDER

Test Package : MOB 1 ( Additional Tests: TBN ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (803)791-9920

Report Id: VOLVO0013 [WUSCAR] 06188756 (Generated: 05/28/2024 12:36:31) Rev: 1

T: (803)923-2138