



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Ascendum Machinery/Greensboro, NC
Machine Id
VOLVO L90C L90CV63157
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007301	VCP241937	---
Sample Date		Client Info		21 Feb 2024	08 Apr 2019	---
Machine Age	hrs	Client Info		31348	30389	---
Oil Age	hrs	Client Info		959	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	43	30	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>30	2	3	---
Lead	ppm	ASTM D5185m	>40	5	5	---
Copper	ppm	ASTM D5185m	>20	5	10	---
Tin	ppm	ASTM D5185m	>20	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

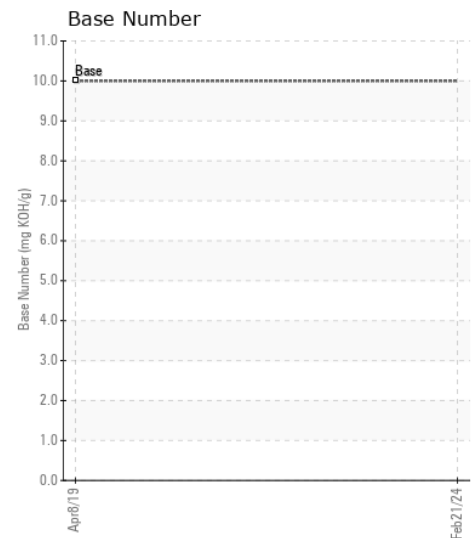
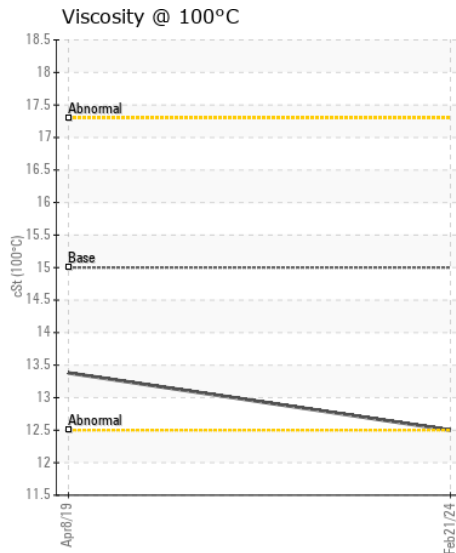
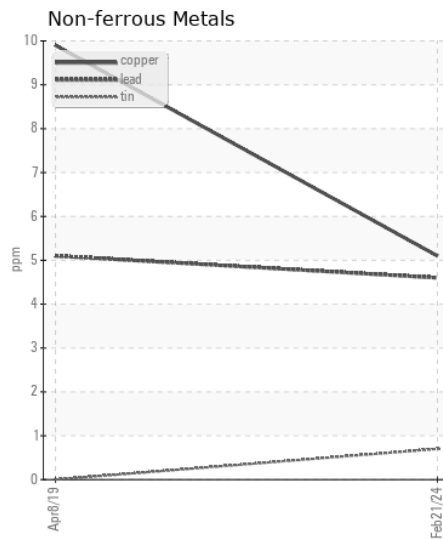
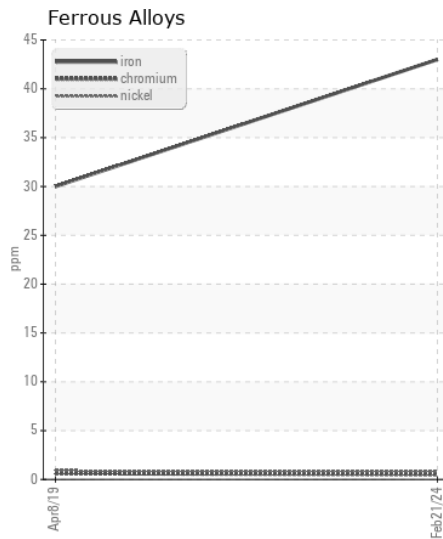
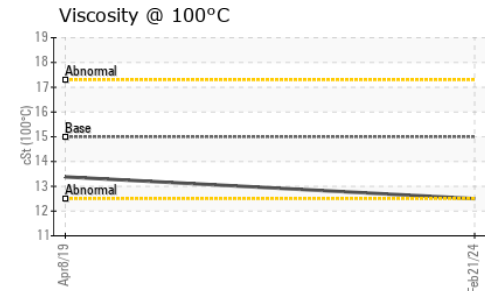
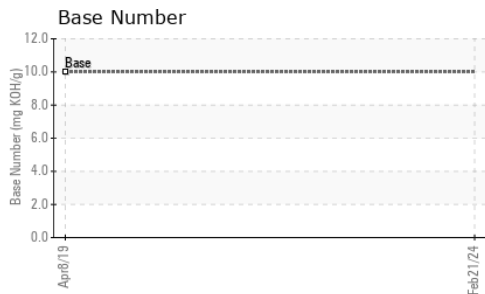
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	4	---
Potassium	ppm	ASTM D5185m	>20	5	13	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	1.6	1.1	---
Nitration	Abs/cm	*ASTM D7624	>20	12.6	11.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	23.4	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		1	4	---
Boron	ppm	ASTM D5185m	2.5	28	59	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.7	48	30	---
Manganese	ppm	ASTM D5185m	0.0	<1	<1	---
Magnesium	ppm	ASTM D5185m	256	475	389	---
Calcium	ppm	ASTM D5185m	2057	1754	1831	---
Phosphorus	ppm	ASTM D5185m	935	837	845	---
Zinc	ppm	ASTM D5185m	1223	1009	959	---
Sulfur	ppm	ASTM D5185m	4079	2859	2533	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.1	22	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.2	---	---
Visc @ 100°C	cSt	ASTM D445	15.0	12.5	13.38	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0007301
Lab Number : 06101296
Unique Number : 10899526
Test Package : CONST (Additional Tests: TBN)

Received : 27 Feb 2024
Tested : 28 Feb 2024
Diagnosed : 28 Feb 2024 - Wes Davis

OLDCASTLE MATERIALS
 900 ASHWOOD PARKWAY SUITE 600
 ATLANTA, GA
 US 30338

Contact: BRIAN MELLO
 brian.mello@oldcastlematerials.com

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)

T: (800)899-8455

F: