



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[SWA529317 ATLANTIC]

Machine Id
VOLVO L90H 627083

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		VCP438872	VCP431610	---
Sample Date		Client Info		10 Apr 2024	12 Dec 2023	---
Machine Age	hrs	Client Info		1032	458	---
Oil Age	hrs	Client Info		0	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	>100	11	25	---
Chromium	ppm	ASTM D5185m	>10	2	2	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	5	9	---
Lead	ppm	ASTM D5185m	>20	<1	1	---
Copper	ppm	ASTM D5185m	>15	2	9	---
Tin	ppm	ASTM D5185m	>10	2	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

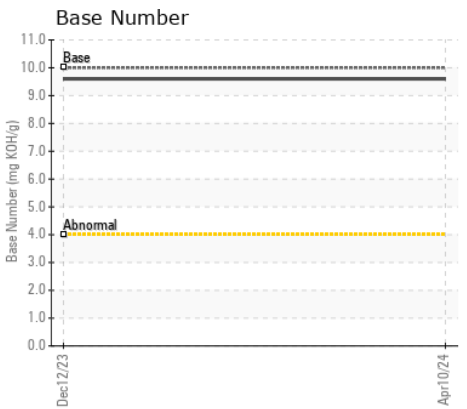
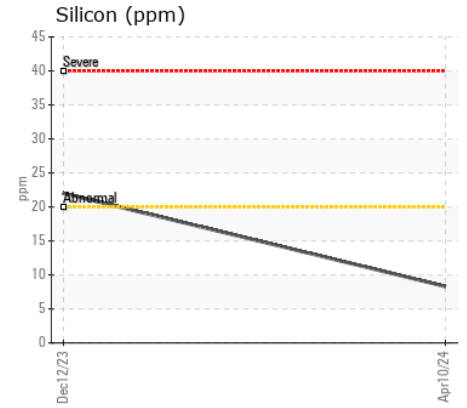
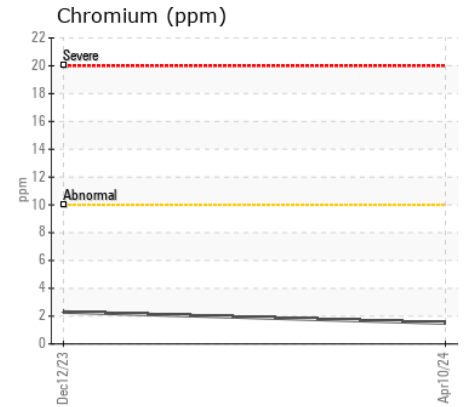
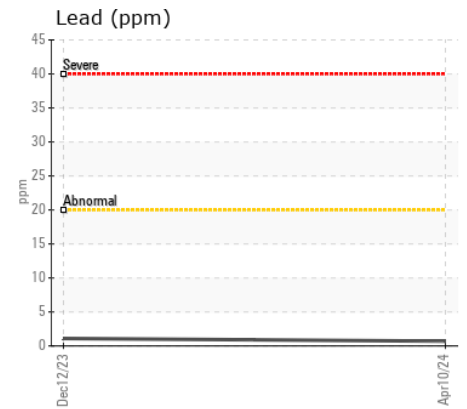
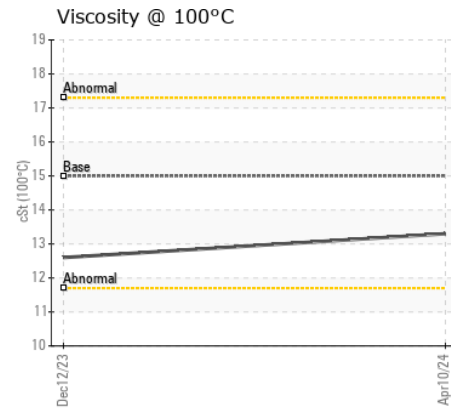
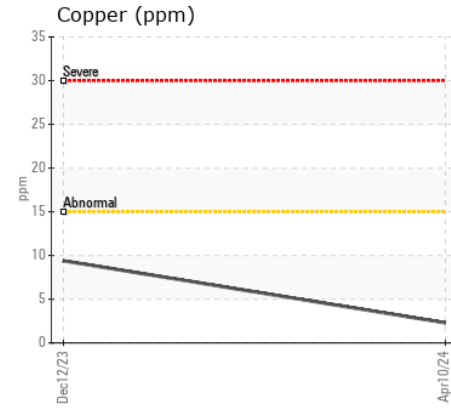
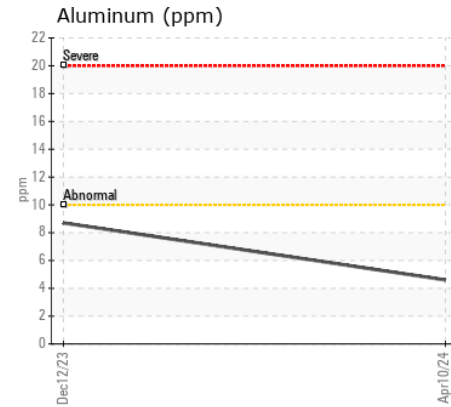
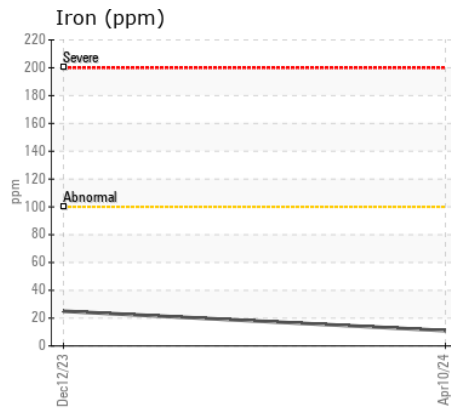
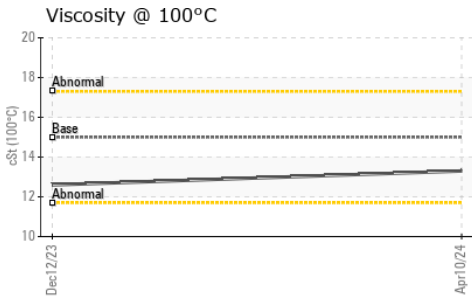
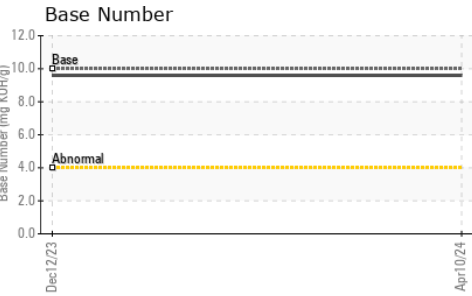
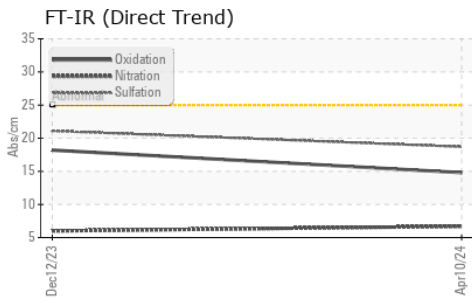
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	8	22	---
Potassium	ppm	ASTM D5185m	>20	2	4	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	21.1	---
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	>0.1	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	1	---
Boron	ppm	ASTM D5185m	2.5	5	53	---
Barium	ppm	ASTM D5185m	0.0	0	16	---
Molybdenum	ppm	ASTM D5185m	0.7	63	38	---
Manganese	ppm	ASTM D5185m	0.0	1	5	---
Magnesium	ppm	ASTM D5185m	256	1004	557	---
Calcium	ppm	ASTM D5185m	2057	1259	1555	---
Phosphorus	ppm	ASTM D5185m	935	1141	923	---
Zinc	ppm	ASTM D5185m	1223	1338	1106	---
Sulfur	ppm	ASTM D5185m	4079	3639	3505	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	18.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.6	9.6	---
Visc @ 100°C	cSt	ASTM D445	15.0	13.3	12.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP438872 **Received** : 15 Apr 2024
Lab Number : 06148355 **Tested** : 15 Apr 2024
Unique Number : 10978433 **Diagnosed** : 17 Apr 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

ALTA EQUIPMENT COMPANY
 5210 REESE ROAD
 DAVIE, FL
 US 33314
 Contact: N. FACEY
 nfacey@altaequipfl.com
 T: (954)581-4744
 F: (954)583-0318

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)