



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Ascendum Machinery
Machine Id
VOLVO L90G 617635
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001976	VCP0006700	VCP0007342
Sample Date		Client Info		03 Jan 2024	12 Apr 2023	24 Jan 2023
Machine Age	hrs	Client Info		12500	11420	11046
Oil Age	hrs	Client Info		500	374	334
Filter Age	hrs	Client Info		500	374	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	5	4	5
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	1
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>15	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

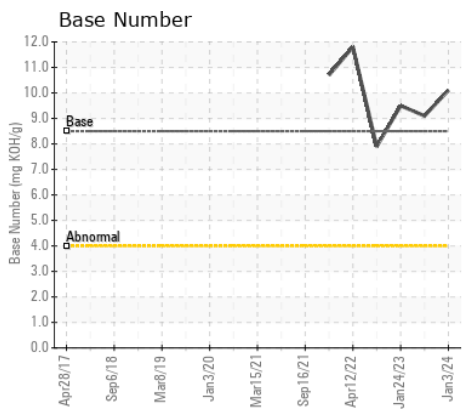
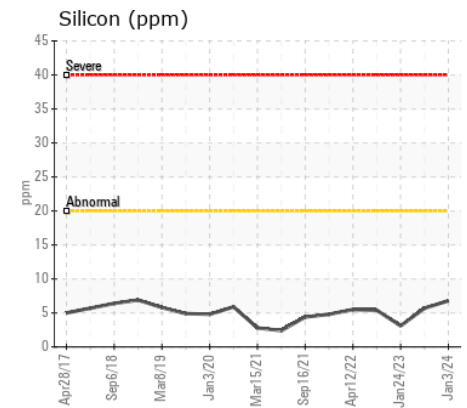
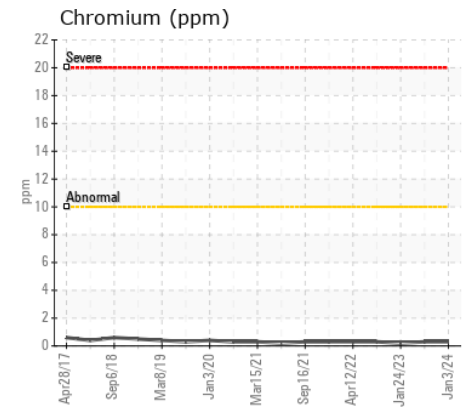
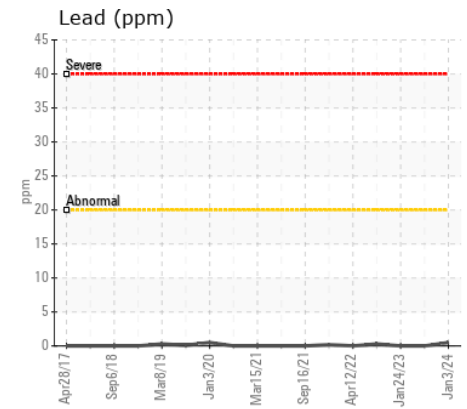
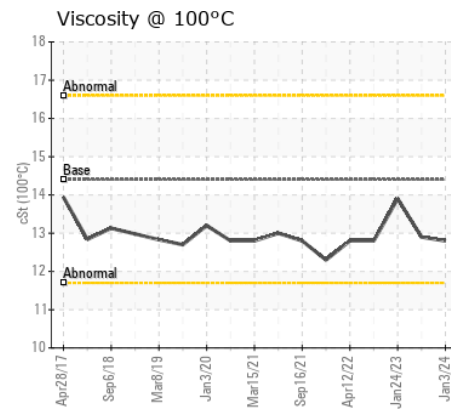
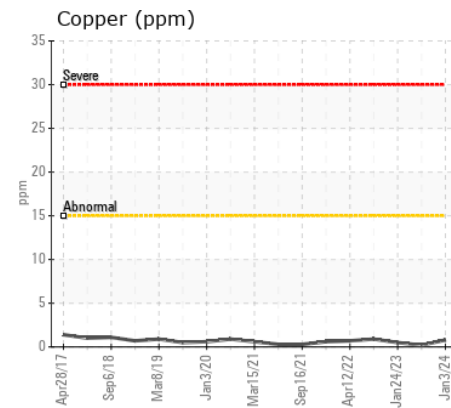
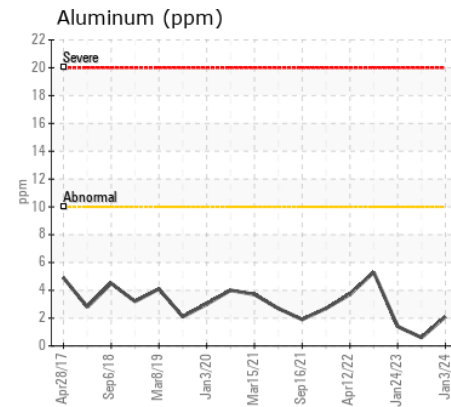
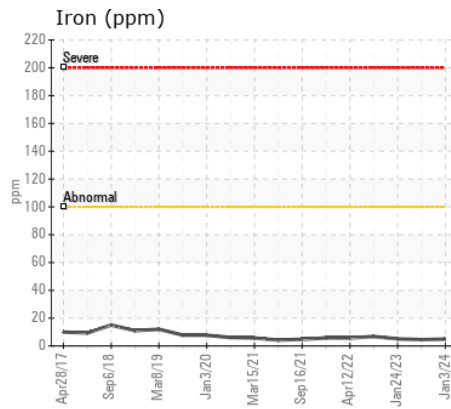
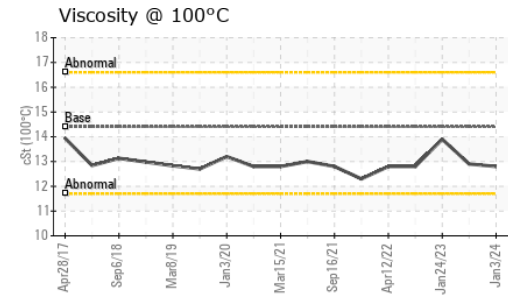
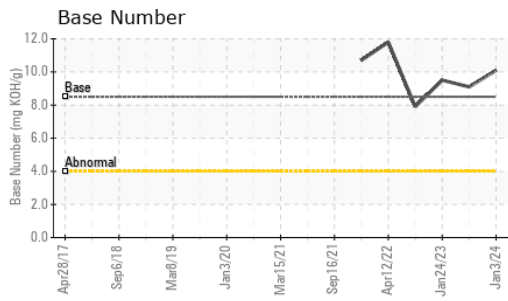
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	7	6	3
Potassium	ppm	ASTM D5185m	>20	2	1	1
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.0	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	18.9	17.6
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	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	>158	0	0	<1
Boron	ppm	ASTM D5185m	250	49	43	15
Barium	ppm	ASTM D5185m	10	0	2	0
Molybdenum	ppm	ASTM D5185m	100	40	44	60
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	450	495	528	813
Calcium	ppm	ASTM D5185m	3000	1671	1557	1146
Phosphorus	ppm	ASTM D5185m	1150	836	902	1017
Zinc	ppm	ASTM D5185m	1350	1100	1085	1198
Sulfur	ppm	ASTM D5185m	4250	3132	2945	2645
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	17.6	13.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.1	9.1	9.5
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	12.9	13.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001976 **Received** : 09 Jan 2024
Lab Number : 06055167 **Diagnosed** : 10 Jan 2024
Unique Number : 10821116 **Diagnostician** : Wes Davis
Test Package : MOBCE (Additional Tests: TBN)

MANHEIM AUTO AUCTION
 6325 PEACHTREE DUNWOODY RD NE
 ATLANTA, GA
 US 30328
 Contact: Service Manager

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)

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F: