

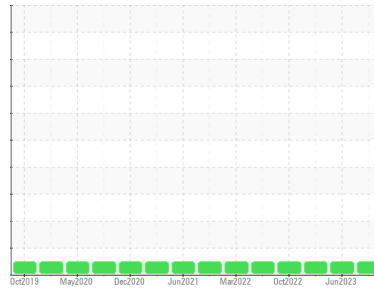


# OIL ANALYSIS REPORT



Area  
**[W/O 11054]**  
 Machine Id  
**VOLVO L90H 625025**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON 15W40 (5 GAL)**

## Sample Rating Trend



NORMAL

✓

## DIAGNOSIS

- Recommendation**  
 Resample at the next service interval to monitor.
- Wear**  
 All component wear rates are normal.
- Contamination**  
 There is no indication of any contamination in the oil.
- Fluid Condition**  
 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>ML0002079</b>	VCP407889	VCP371185
Sample Date	Client Info		<b>01 Jul 2024</b>	05 Jun 2023	13 Feb 2023
Machine Age	hrs	Client Info	<b>6973</b>	6973	6228
Oil Age	hrs	Client Info	<b>500</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>7</b>	7	8
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	3	2
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	1
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>212</b>	378	383
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>103</b>	95	94
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>582</b>	479	460
Calcium	ppm	ASTM D5185m	<b>1682</b>	1479	1425
Phosphorus	ppm	ASTM D5185m	<b>891</b>	1019	945
Zinc	ppm	ASTM D5185m	<b>996</b>	1263	1122
Sulfur	ppm	ASTM D5185m	<b>3183</b>	4087	3072

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>6</b>	6	6
Sodium	ppm	ASTM D5185m >50	<b>2</b>	1	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	2	2

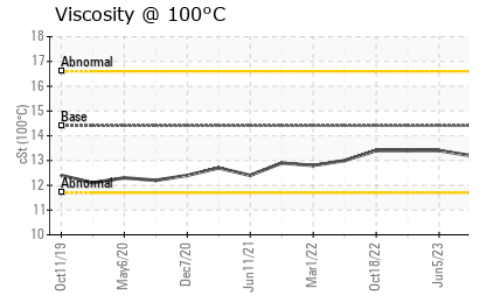
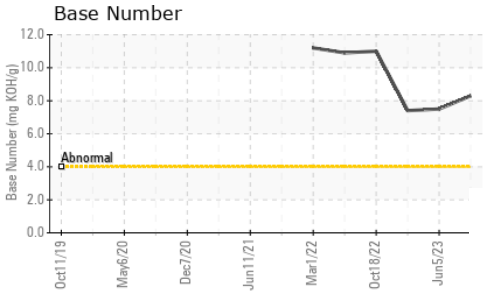
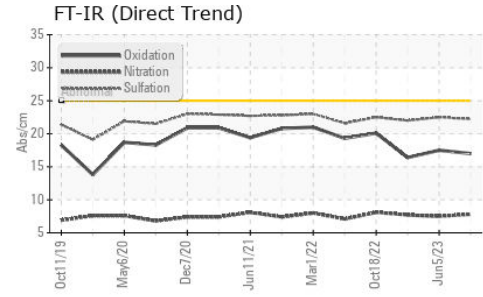
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.8</b>	7.5	7.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.2</b>	22.5	22.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.0</b>	17.5	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.3</b>	7.5	7.4

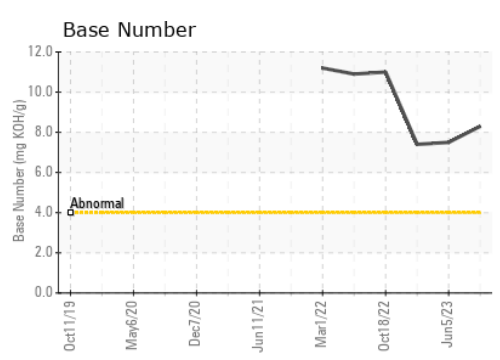
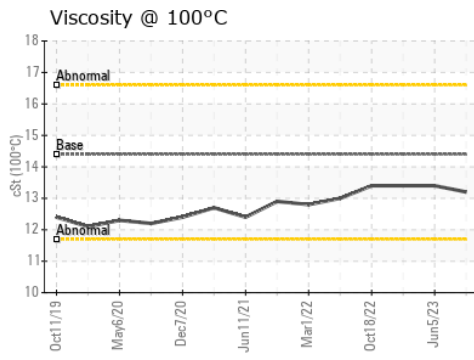
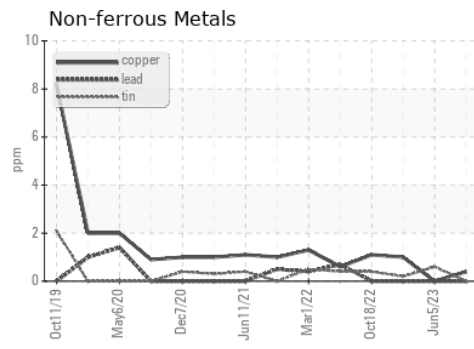
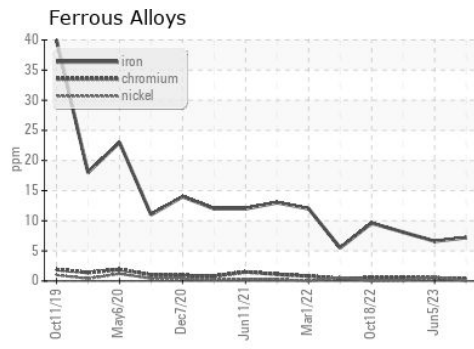
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.2	13.4

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002079      **Received** : 11 Jul 2024  
**Lab Number** : 06234231      **Tested** : 12 Jul 2024  
**Unique Number** : 11123065      **Diagnosed** : 14 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**IAA - INSURANCE AUTO AUCTIONS - METRO DC**  
 14149 BRANDYWINE RD  
 BRANDYWINE, MD  
 US 20613  
 Contact:

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:  
F: