



# OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**CASSARS LONDON**

Machine Id  
**VOLVO VAH 20065**

Component  
**Diesel Engine**

Fluid  
**CHEVRON DELO 400 SAE 10W30 (--- GAL)**

## RECOMMENDATION

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0899289</b>	---	---
Sample Date		Client Info		<b>15 Feb 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>Not Changd</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

## WEAR

Light concentration of visible metal present.

Iron	ppm	ASTM D5185(m)	>100	<b>26</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>9</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>▲ VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---

## CONTAMINATION

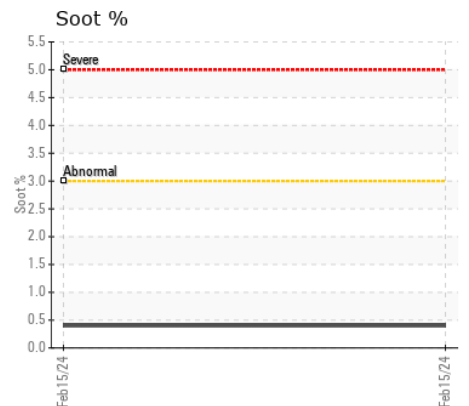
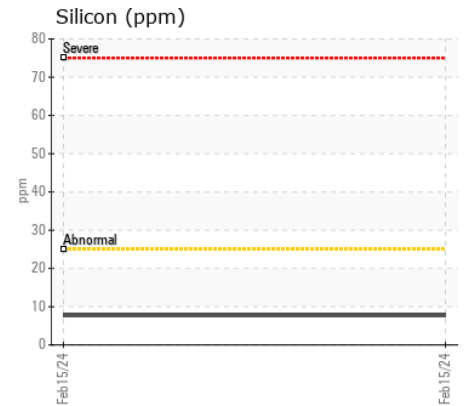
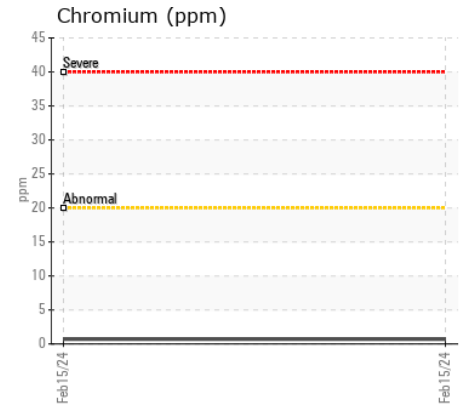
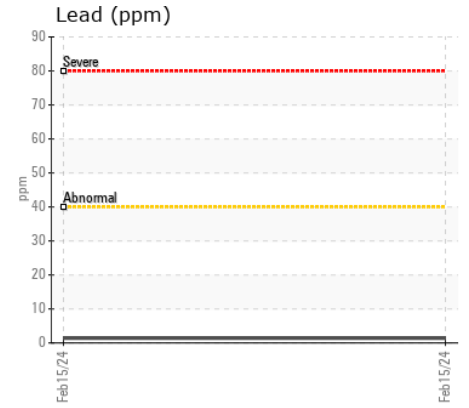
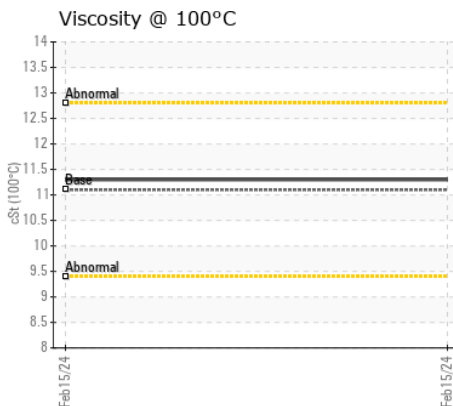
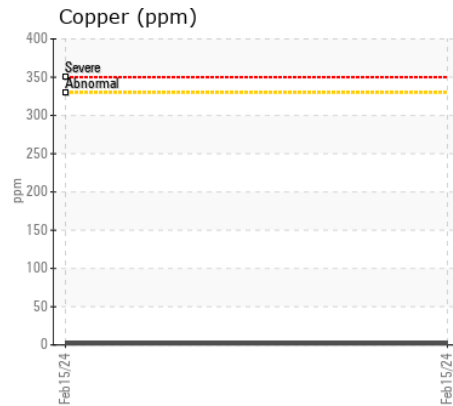
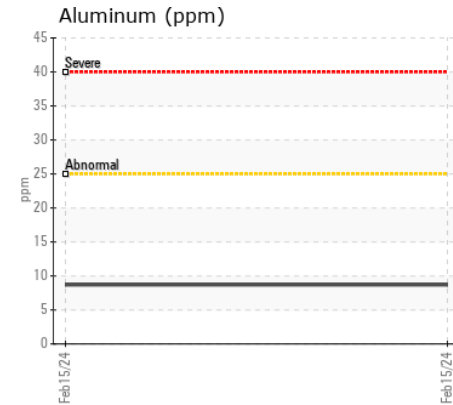
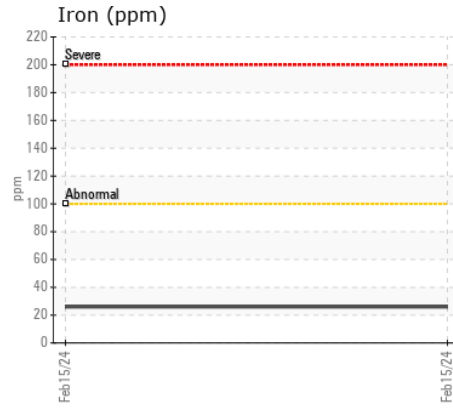
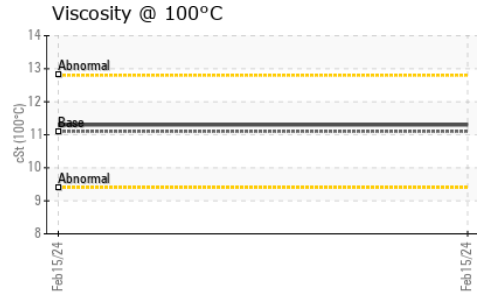
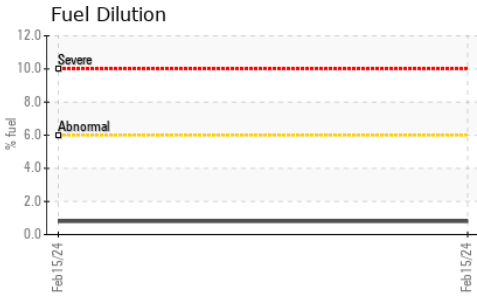
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	---	---
Fuel	%	ASTM D7593*	>6.0	<b>0.8</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.9</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.0</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

## FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		<b>8</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>13</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>4</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>711</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1325</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1260	<b>697</b>	---	---
Zinc	ppm	ASTM D5185(m)	1400	<b>762</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2499</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.7</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	<b>11.3</b>	---	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0899289  
**Lab Number** : 02616145  
**Unique Number** : 5733255  
**Test Package** : MOB 1 ( Additional Tests: BottomAnalysis, FILTERPATCH, FuelDilution, PercentFuelDilution)

**Received** : 16 Feb 2024  
**Tested** : 22 Feb 2024  
**Diagnosed** : 23 Feb 2024 - Kevin Marson

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.