



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**BMW 2002 BMW**  
 Component  
**Gasoline Engine**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. 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. Please specify the brand, type, and viscosity of the oil on your next sample.

## WEAR

All component wear rates are normal.

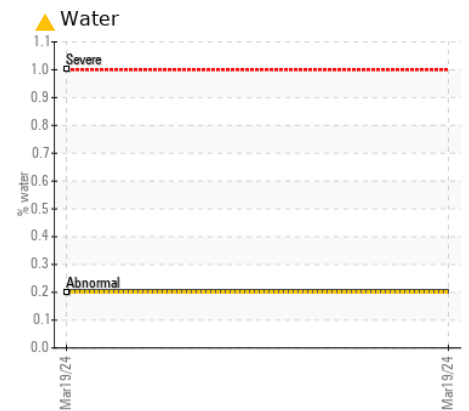
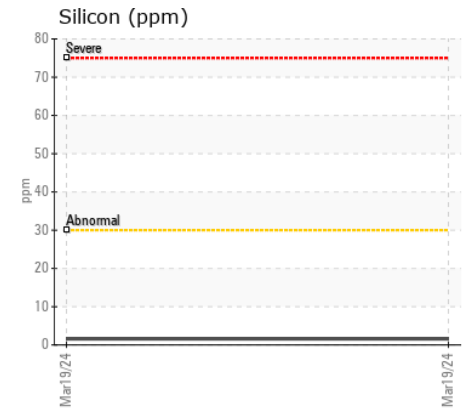
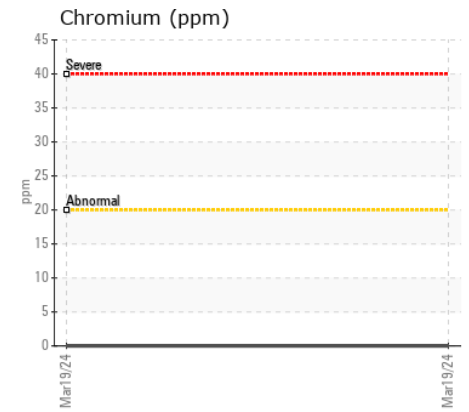
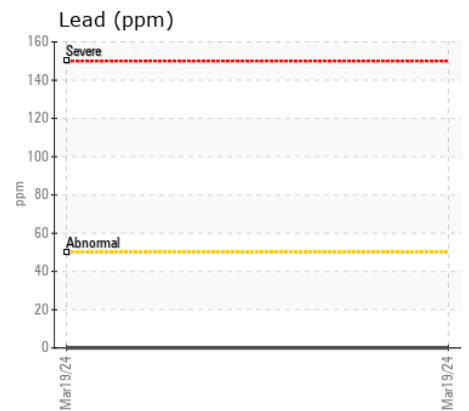
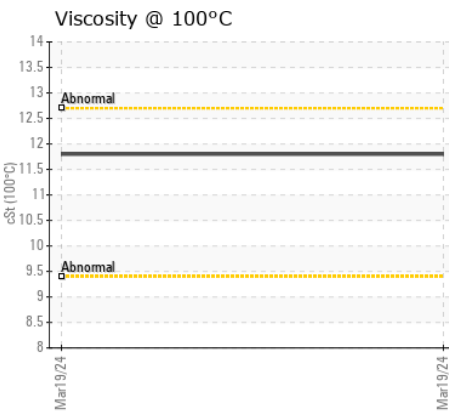
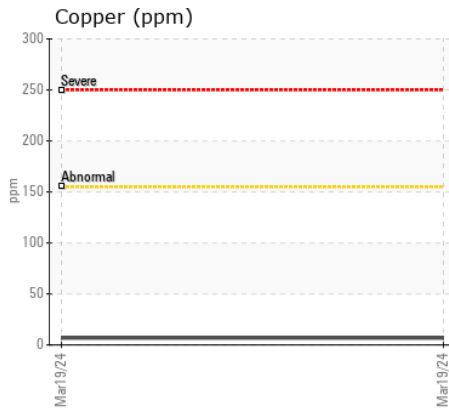
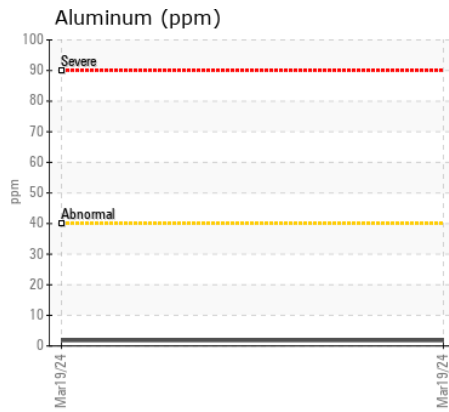
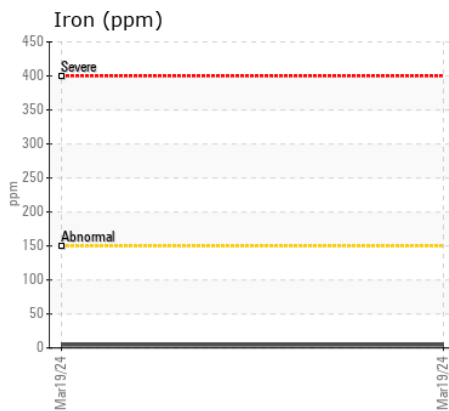
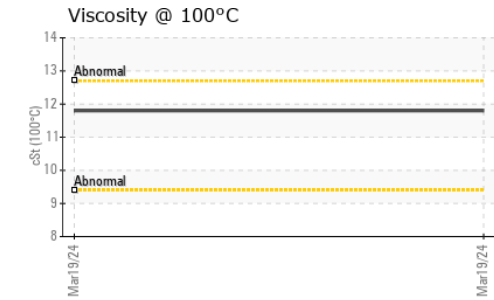
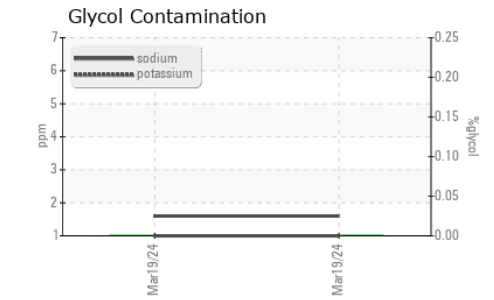
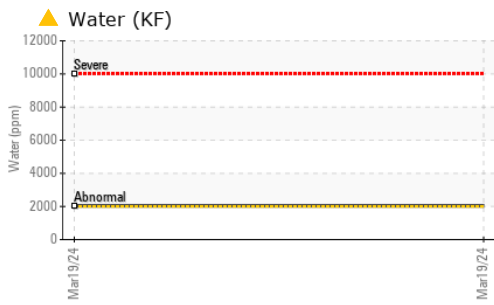
## CONTAMINATION

There is a moderate concentration of water present in the oil. Test for glycol is negative.

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0019707	---	---
Sample Date		Client Info		19 Mar 2024	---	---
Machine Age	kms	Client Info		115	---	---
Oil Age	kms	Client Info		0	---	---
Filter Age	kms	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)	>150	4	---	---
Chromium	ppm	ASTM D5185(m)	>20	0	---	---
Nickel	ppm	ASTM D5185(m)	>5	0	---	---
Titanium	ppm	ASTM D5185(m)		16	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>40	2	---	---
Lead	ppm	ASTM D5185(m)	>50	0	---	---
Copper	ppm	ASTM D5185(m)	>155	7	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>30	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	1	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water	%	ASTM D6304*	>0.2	▲ 0.203	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 2032	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	9.6	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.3	---	---
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	---	---
Sodium	ppm	ASTM D5185(m)	>400	2	---	---
Boron	ppm	ASTM D5185(m)		67	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		20	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		76	---	---
Calcium	ppm	ASTM D5185(m)		2293	---	---
Phosphorus	ppm	ASTM D5185(m)		792	---	---
Zinc	ppm	ASTM D5185(m)		914	---	---
Sulfur	ppm	ASTM D5185(m)		1804	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		11.8	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0019707  
**Lab Number** : 02625189  
**Unique Number** : 5750308  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KF )  
**Received** : 28 Mar 2024  
**Tested** : 28 Mar 2024  
**Diagnosed** : 01 Apr 2024 - Kevin Marson

**MARIO BABIN**  
 40 RTE DION  
 CAPLAN, QC  
 CA G8C 1H0  
 Contact: Mario Babin  
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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.