



Machine Id  
**FORD GL-9**

Component  
**Gasoline Engine**

Fluid  
**MOTORCRAFT SYNTHETIC BLEND 5W20 (6 LTR)**

**DIAGNOSIS**

**Recommendation**

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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.

**Wear**

All component wear rates are normal.

**Contamination**

Moderate concentration of visible dirt/debris present in the oil.

**Fluid Condition**

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC427830</b>	---	---
Sample Date	Client Info			<b>26 Feb 2024</b>	---	---
Machine Age	kms	Client Info		<b>176000</b>	---	---
Oil Age	kms	Client Info		<b>6000</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>4.0		<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2		<b>NEG</b>	---	---

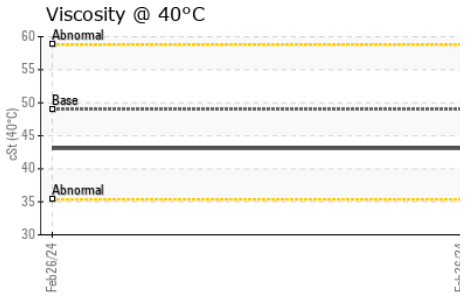
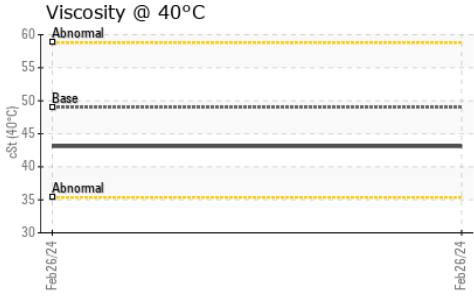
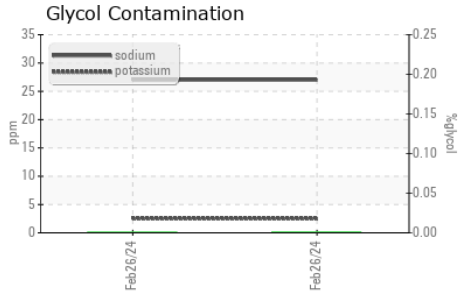
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	<b>49</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>5</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>40	<b>12</b>	---	---
Lead	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	>155	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>23</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>79</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>400</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1160</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>708</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>782</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>1950</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	<b>16</b>	---	---
Sodium	ppm	ASTM D5185(m)	>400	<b>27</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.2</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>19.4</b>	---	---

# OIL ANALYSIS REPORT

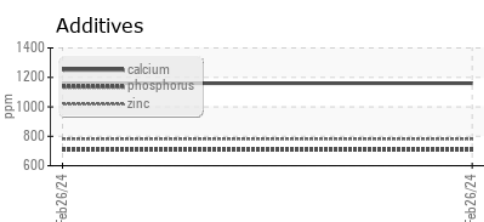
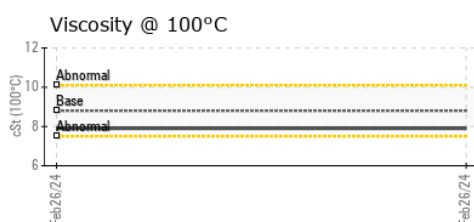
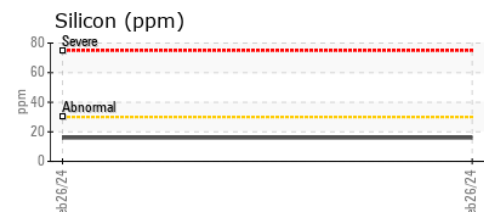
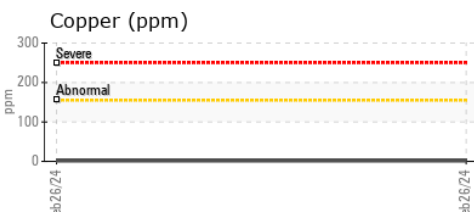
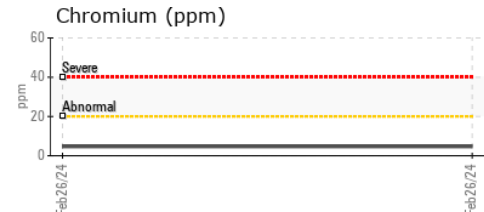
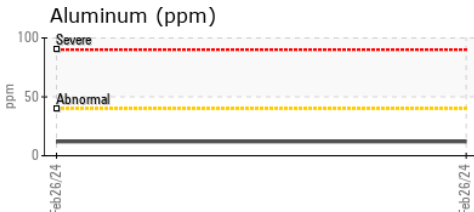
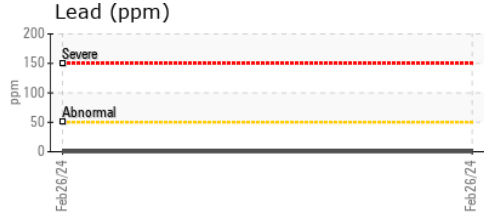
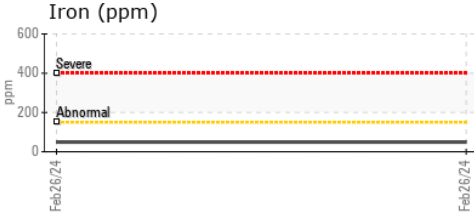


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	12.0	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	▲ LIGHT	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	49	43.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.8	7.9	---
Viscosity Index (VI)	Scale	ASTM D2270*	161	156	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC427830  
**Lab Number** : 02619253  
**Unique Number** : 5736363  
**Test Package** : MOB 1 ( Additional Tests: BottomAnalysis, FILTERPATCH, Glycol, KV40, UVISUR)

**HORIZON CUSTOM BUILDERS**  
 1040-20TH STREET  
 BRANDON, MB  
 CA R7B 1M8  
 brian.blackmore@horizonbuilders.ca

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.

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