



OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Machine Id

2277

Component

Natural Gas Engine

Fluid

VALVOLINE PREMIUM BLUE 9200 15W40 (--- GAL)



DIAGNOSIS

▲ 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 component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

▲ 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0891023	---	---
Sample Date	Client Info	17 Jan 2024	---	---
Machine Age	kms Client Info	4095	---	---
Oil Age	kms Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>50	34	---	---
Chromium ppm ASTM D5185(m)	>4	<1	---	---
Nickel ppm ASTM D5185(m)	>2	<1	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)	>3	0	---	---
Aluminum ppm ASTM D5185(m)	>9	2	---	---
Lead ppm ASTM D5185(m)	>30	1	---	---
Copper ppm ASTM D5185(m)	>35	16	---	---
Tin ppm ASTM D5185(m)	>4	<1	---	---
Antimony ppm ASTM D5185(m)		0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)		29	---	---
Barium ppm ASTM D5185(m)		2	---	---
Molybdenum ppm ASTM D5185(m)		50	---	---
Manganese ppm ASTM D5185(m)		11	---	---
Magnesium ppm ASTM D5185(m)		742	---	---
Calcium ppm ASTM D5185(m)		1166	---	---
Phosphorus ppm ASTM D5185(m)		729	---	---
Zinc ppm ASTM D5185(m)		817	---	---
Sulfur ppm ASTM D5185(m)		2109	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>+100	36	---	---
Sodium ppm ASTM D5185(m)		5	---	---
Potassium ppm ASTM D5185(m)	>20	2	---	---
Water % ASTM D6304*	>0.1	▲ 0.182	---	---
ppm Water ppm ASTM D6304*	>1000	▲ 1829	---	---
Glycol % ASTM D7922*		0.0	---	---

INFRA-RED

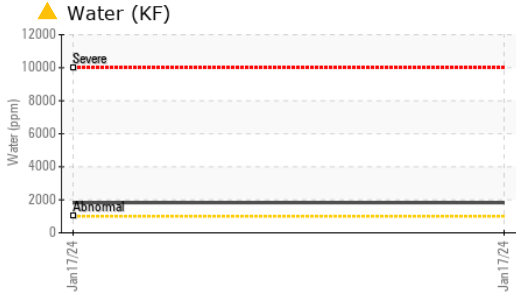
method	limit/base	current	history1	history2
Soot % ASTM D7844*		0	---	---
Nitration Abs/cm ASTM D7624*	>20	9.3	---	---
Sulfation Abs/.1mm ASTM D7415*	>30	20.3	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm ASTM D7414*	>25	18.0	---	---



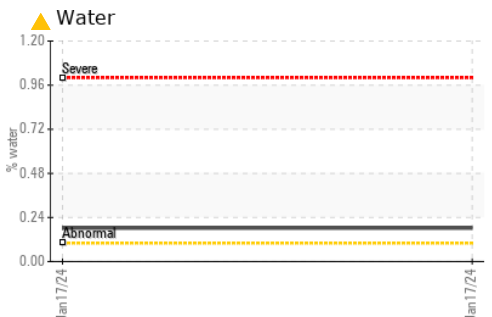
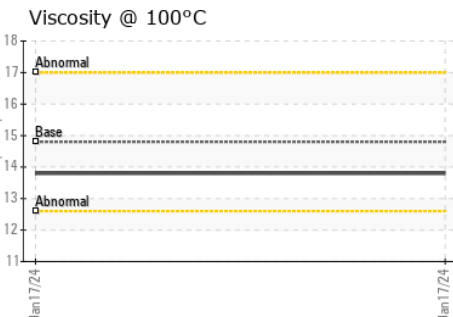
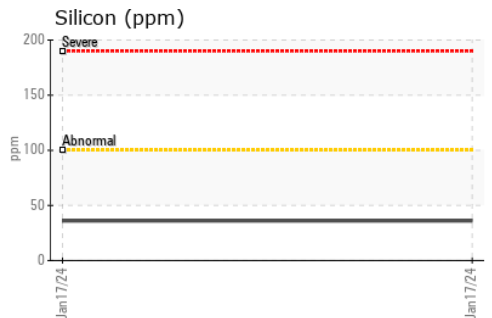
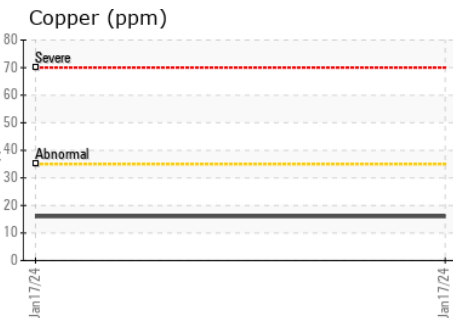
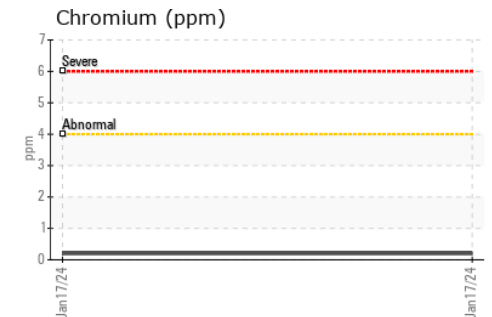
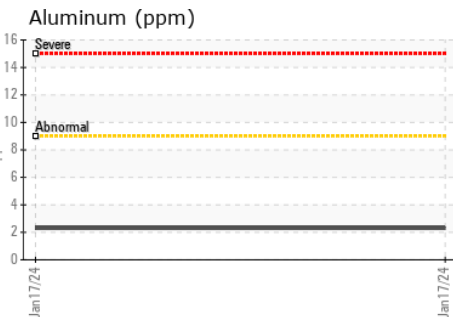
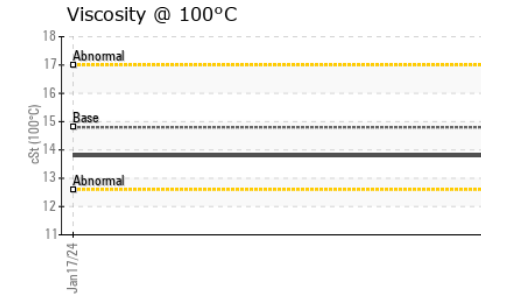
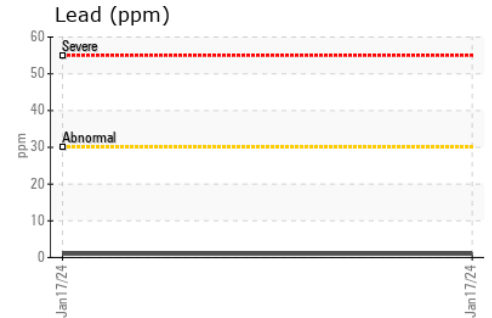
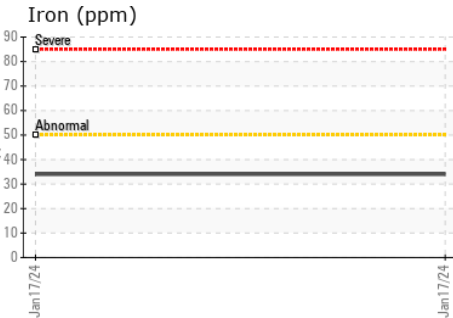
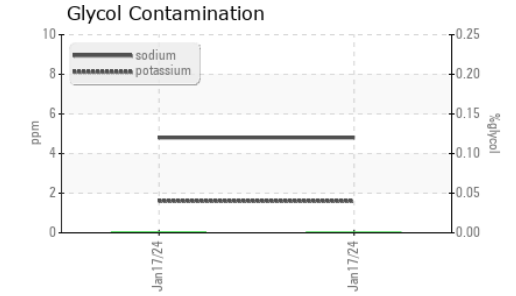
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1 ▲ .2%	---	---
Free Water	scalar	Visual*	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	13.8	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0891023 **Received** : 22 Jan 2024
Lab Number : 02610264 **Diagnosed** : 23 Jan 2024
Unique Number : 5711350 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF)

CITY OF HAMILTON
 2200 UPPER JAMES., MOUNTAIN TRANSIT STOREROOM
 MOUNT HOPE, ON
 CA L0R 1W0
 Contact: Jeff Parr
 jeff.parr@hamilton.ca
 T: (905)546-2424
 F: (905)679-4502

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.