



Machine Id
JEEP 2008 JEEP
Component
Gasoline Engine
Fluid
SAE 5W30 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0046046	---	---
Sample Date		Client Info		09 Jan 2024	---	---
Machine Age	kms	Client Info		290000	---	---
Oil Age	kms	Client Info		2000	---	---
Filter Age	kms	Client Info		2000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	118	---	---
Chromium	ppm	ASTM D5185(m)	>20	2	---	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>40	13	---	---
Lead	ppm	ASTM D5185(m)	>50	<1	---	---
Copper	ppm	ASTM D5185(m)	>155	3	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

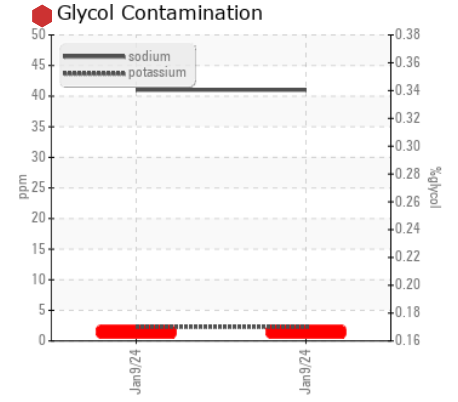
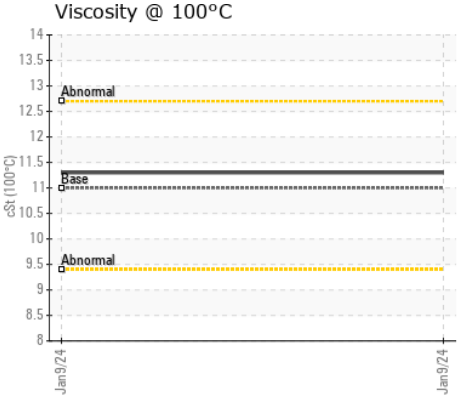
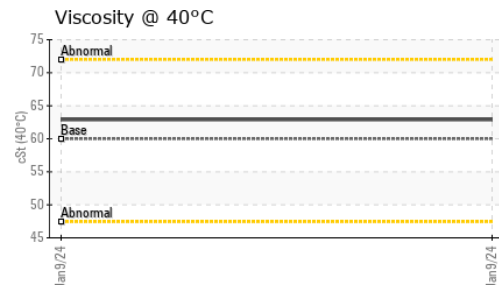
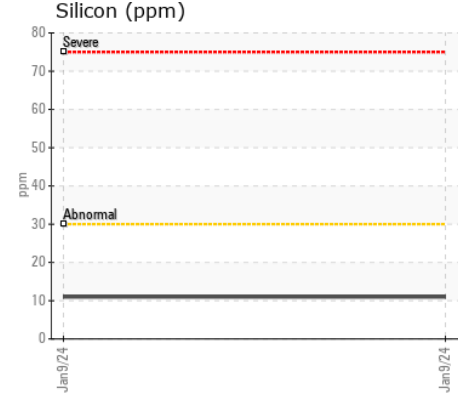
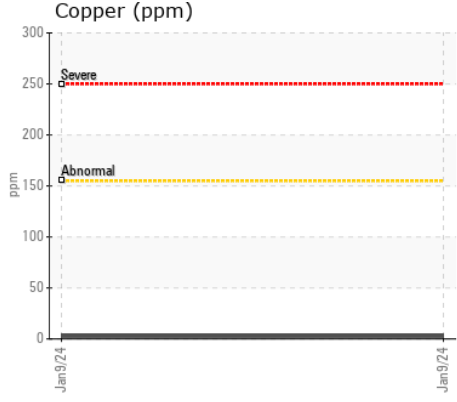
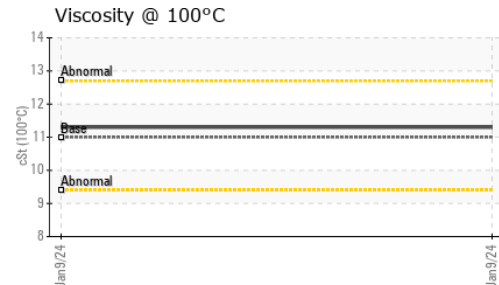
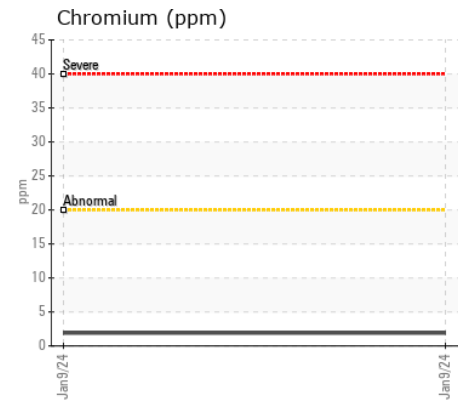
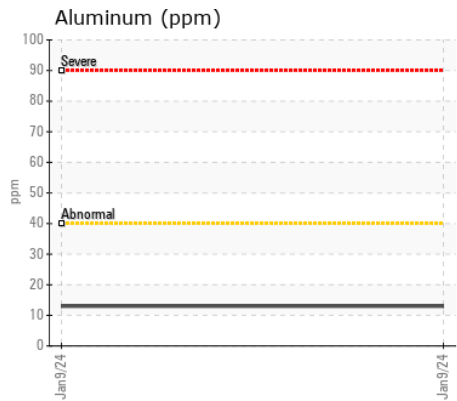
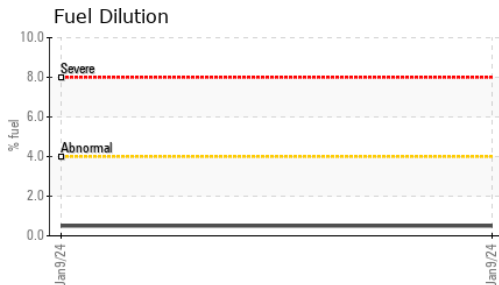
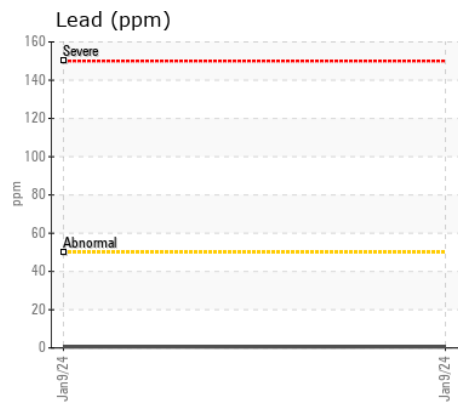
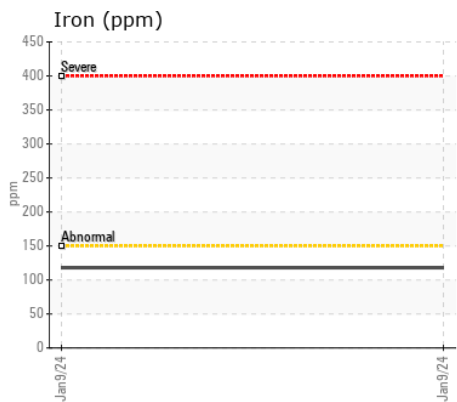
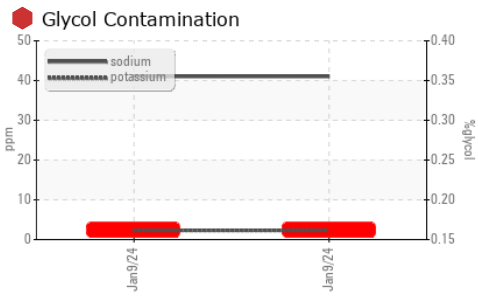
Fuel content negligible. Test for glycol is positive. There is a high concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185(m)	>30	11	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Fuel	%	ASTM D7593*	>4.0	0.5	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.171	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	8.3	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.9	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>400	41	---	---
Boron	ppm	ASTM D5185(m)		59	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		6	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		32	---	---
Calcium	ppm	ASTM D5185(m)		1674	---	---
Phosphorus	ppm	ASTM D5185(m)		705	---	---
Zinc	ppm	ASTM D5185(m)		791	---	---
Sulfur	ppm	ASTM D5185(m)		1698	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	8.5	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	60.0	62.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	11.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	177	175	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0046046 **Received** : 16 Jan 2024
Lab Number : 02608856 **Diagnosed** : 17 Jan 2024
Unique Number : 5709942 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, VI)

RYAN NEWBY
 BOX 907
 MAPLE CREEK, SK
 CA S0N 1W0
 Contact: Ryan Newby

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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