



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
DODGE 23082
 Component
Diesel Engine
 Fluid
{not provided} (--- 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 brand, type, and viscosity of the oil on your next sample.

Wear

We have assumed that the oil was taken hot, according to the sampling instructions. All component wear rates are normal.

▲ Contamination

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

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0779297	---	---
Sample Date	Client Info		14 Jun 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	21	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---
Titanium	ppm	ASTM D5185(m)		<1	---
Silver	ppm	ASTM D5185(m)	>3	1	---
Aluminum	ppm	ASTM D5185(m)	>20	3	---
Lead	ppm	ASTM D5185(m)	>40	0	---
Copper	ppm	ASTM D5185(m)	>330	2	---
Tin	ppm	ASTM D5185(m)	>15	0	---
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)		42	---
Barium	ppm	ASTM D5185(m)		0	---
Molybdenum	ppm	ASTM D5185(m)		50	---
Manganese	ppm	ASTM D5185(m)		<1	---
Magnesium	ppm	ASTM D5185(m)		913	---
Calcium	ppm	ASTM D5185(m)		937	---
Phosphorus	ppm	ASTM D5185(m)		1003	---
Zinc	ppm	ASTM D5185(m)		1110	---
Sulfur	ppm	ASTM D5185(m)		2696	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

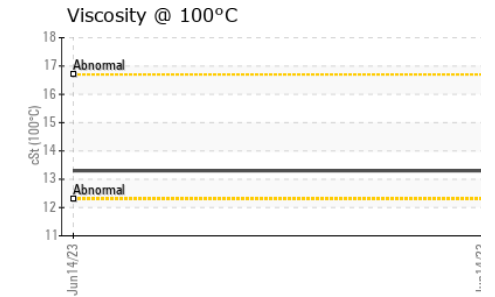
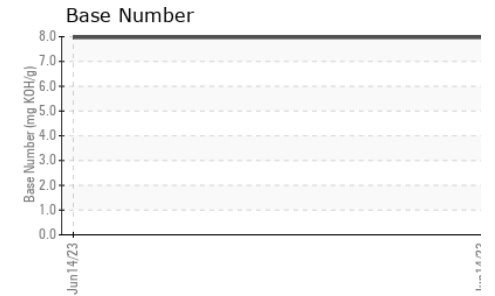
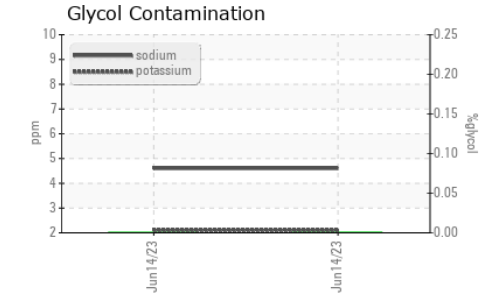
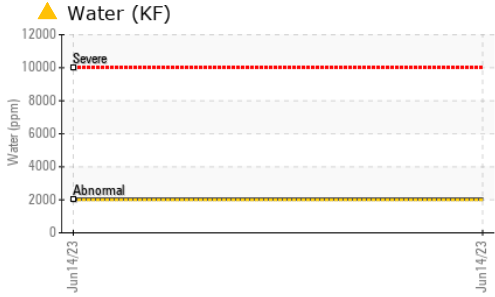
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10	---
Sodium	ppm	ASTM D5185(m)		5	---
Potassium	ppm	ASTM D5185(m)	>20	2	---
Water	%	ASTM D6304*	>0.2	▲ 0.203	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 2039.3	---
Glycol	%	ASTM D7922*		0.0	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	---
Nitration	Abs/cm	ASTM D7624*	>20	12.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	---



OIL ANALYSIS REPORT

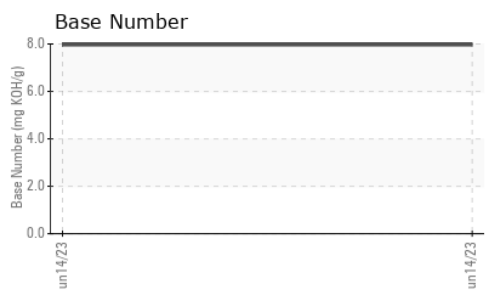
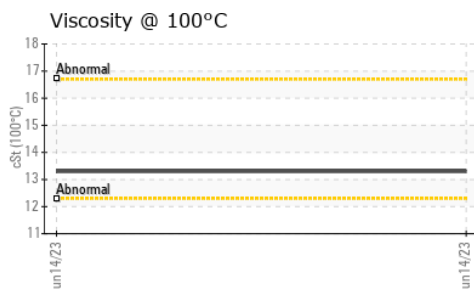
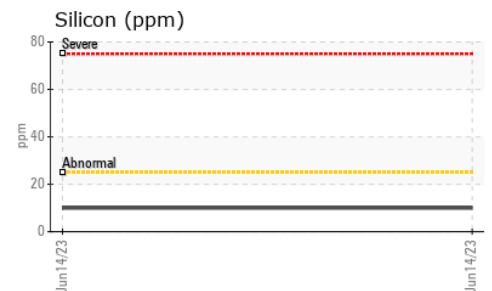
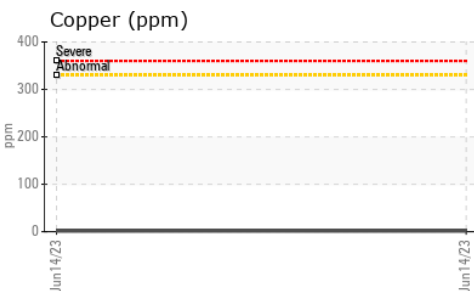
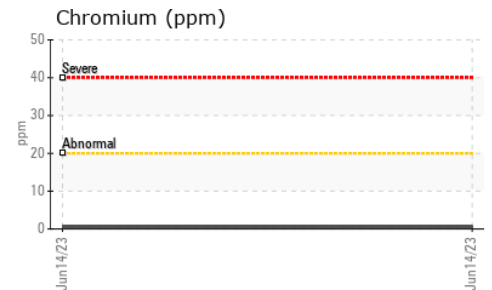
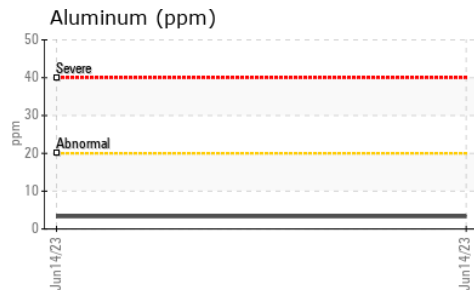
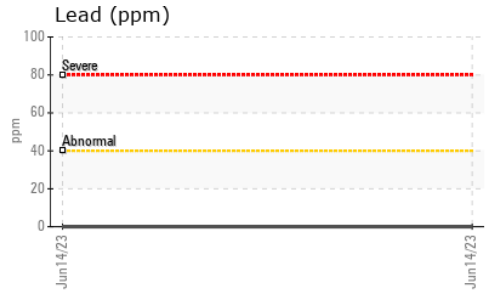
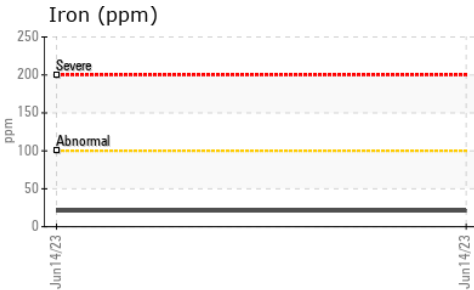


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	23.2	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		7.97	---	---

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)		13.3	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0779297
Lab Number : 02564238
Unique Number : 5593279
Test Package : MOB 2 (Additional Tests: Glycol, KF)
Received : 15 Jun 2023
Tested : 19 Jun 2023
Diagnosed : 19 Jun 2023 - Kevin Marson

Colosi Vehicle Investigations
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 Niagara Falls, ON
 CA L2H 0C1
 Contact: Russ Colosi
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 T: (289)294-0702
 F:

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.