

OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
NO UNIT WA001756

Component
Diesel Engine

Fluid
SHELL ROTELLA T5 10W30 (CJ4) (--- GAL)

DIAGNOSIS

▲ Recommendation

Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

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

Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

▲ Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service (see recommendation).

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WA0017536	---	---
Sample Date	Client Info		10 Aug 2023	---	---
Machine Age	kms	Client Info	1156421	---	---
Oil Age	kms	Client Info	38156	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			ATTENTION	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	28	---
Chromium	ppm	ASTM D5185(m)	>20	1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	---
Silver	ppm	ASTM D5185(m)	>2	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	6	---
Lead	ppm	ASTM D5185(m)	>40	5	---
Copper	ppm	ASTM D5185(m)	>330	3	---
Tin	ppm	ASTM D5185(m)	>15	<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)		22	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)		23	---
Manganese	ppm	ASTM D5185(m)		<1	---
Magnesium	ppm	ASTM D5185(m)		16	---
Calcium	ppm	ASTM D5185(m)		2323	---
Phosphorus	ppm	ASTM D5185(m)		1021	---
Zinc	ppm	ASTM D5185(m)		1196	---
Sulfur	ppm	ASTM D5185(m)		2901	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9	---
Sodium	ppm	ASTM D5185(m)		▲ 271	---
Potassium	ppm	ASTM D5185(m)	>20	17	---
Glycol	%	ASTM D7922*		0.0	---

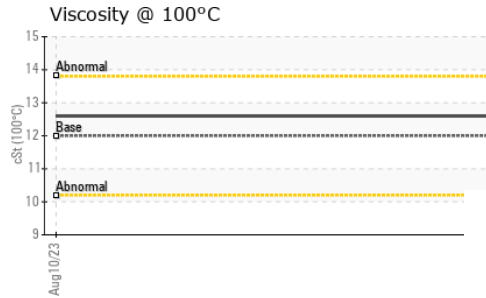
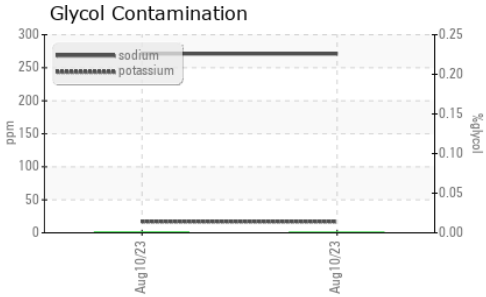
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.5	---
Nitration	Abs/cm	ASTM D7624*	>20	11.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	30.2	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.8	---

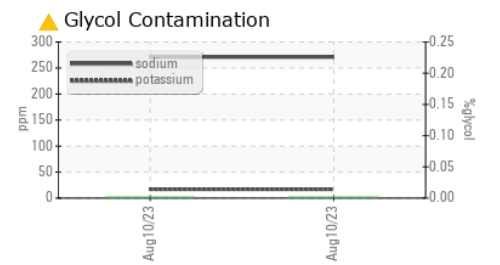
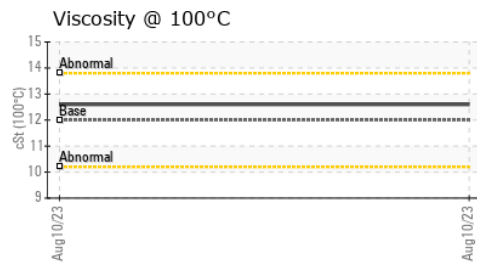
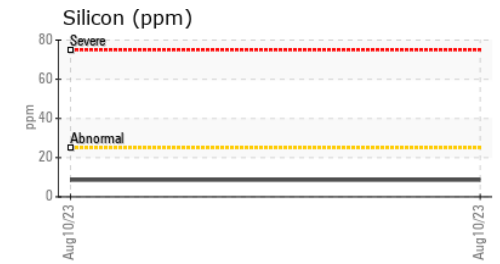
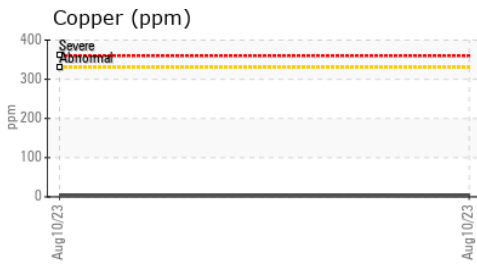
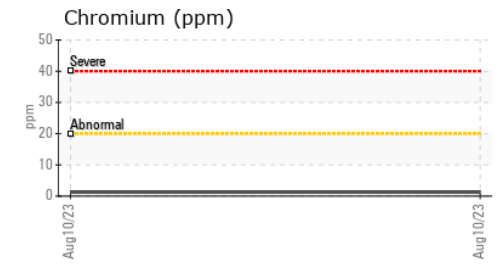
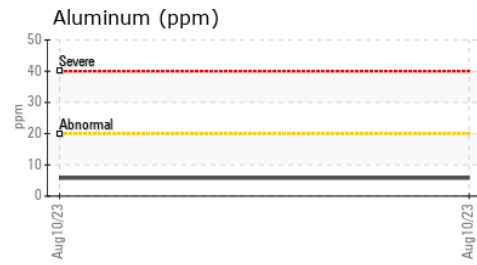
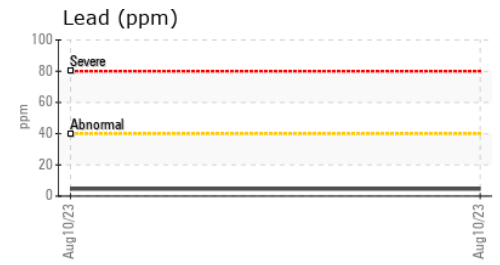
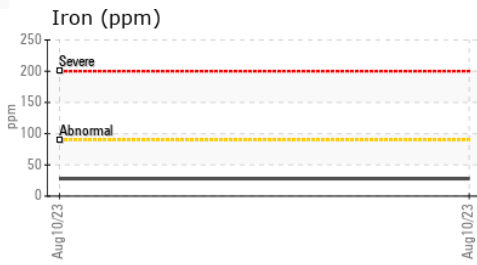
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
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 @ 100°C	cSt	ASTM D7279(m)	12.0	12.6	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0017536 **Received** : 15 Aug 2023
Lab Number : 02575810 **Diagnosed** : 16 Aug 2023
Unique Number : 5620861 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, Visual)

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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