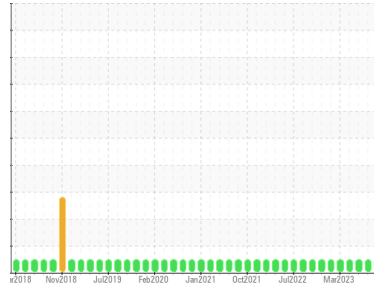




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**ALLISON 229**  
 Component  
**Rear Transmission (Auto)**  
 Fluid  
**CASTROL TRANSYND (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the fluid.

### Fluid Condition

The condition of the fluid is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0866563</b>	WC0816411	WC0816572
Sample Date	Client Info	<b>23 Oct 2023</b>	16 Aug 2023	05 Jul 2023
Machine Age	kms Client Info	<b>0</b>	0	0
Oil Age	kms Client Info	<b>19405</b>	8433	49380
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >230	<b>50</b>	42	73
Chromium	ppm ASTM D5185(m) >2	<b>0</b>	0	<1
Nickel	ppm ASTM D5185(m) >5	<b>&lt;1</b>	0	0
Titanium	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm ASTM D5185(m) >5	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >65	<b>9</b>	8	14
Lead	ppm ASTM D5185(m) >55	<b>2</b>	1	3
Copper	ppm ASTM D5185(m) >85	<b>9</b>	8	15
Tin	ppm ASTM D5185(m) >5	<b>&lt;1</b>	<1	<1
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 150	<b>80</b>	82	97
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	<1	<1
Manganese	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 0	<b>1</b>	1	2
Calcium	ppm ASTM D5185(m) 40	<b>126</b>	126	127
Phosphorus	ppm ASTM D5185(m) 320	<b>245</b>	269	318
Zinc	ppm ASTM D5185(m) 5	<b>4</b>	5	6
Sulfur	ppm ASTM D5185(m) 1050	<b>1544</b>	1593	1675
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

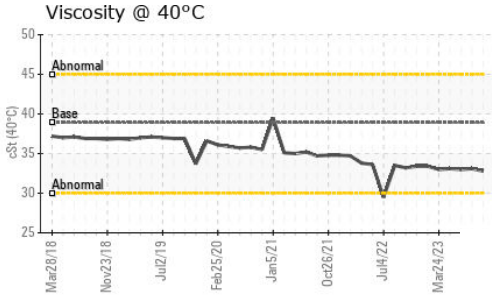
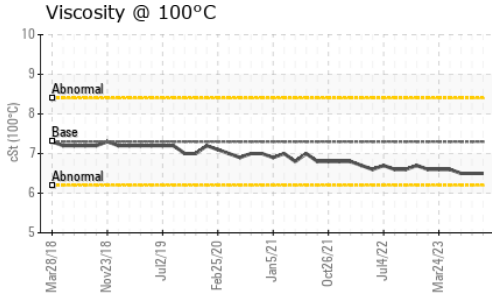
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>5</b>	4	7
Sodium	ppm ASTM D5185(m)	<b>4</b>	4	5
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	2	1

## VISUAL

method	limit/base	current	history1	history2
White Metal	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Silt	scalar Visual* NONE	<b>NONE</b>	VLITE	NONE
Debris	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar Visual* NORML	<b>NORML</b>	NORML	NORML
Odor	scalar Visual* NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar Visual* >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar Visual*	<b>NEG</b>	NEG	NEG



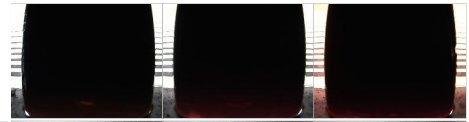
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	32.8	33.1
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.5	6.5
Viscosity Index (VI)	Scale	ASTM D2270*	168	156	154

SAMPLE IMAGES	method	limit/base	current	history1	history2
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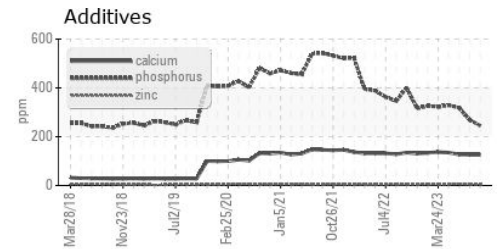
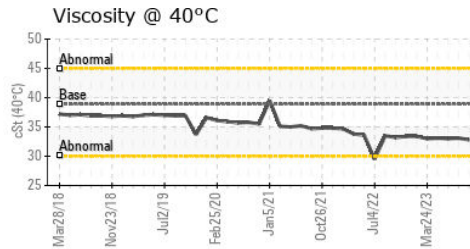
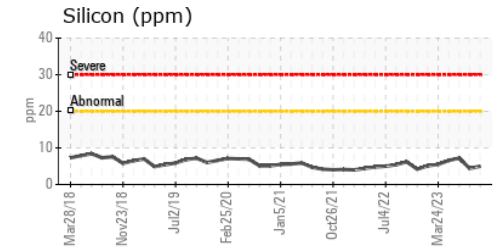
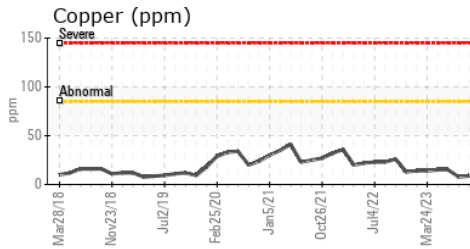
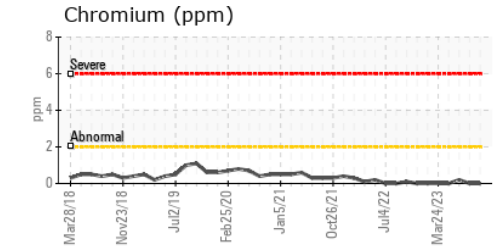
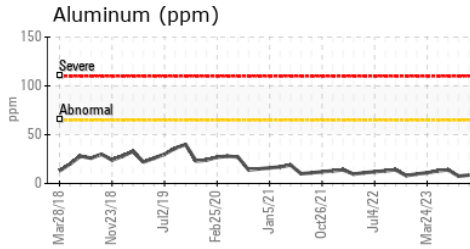
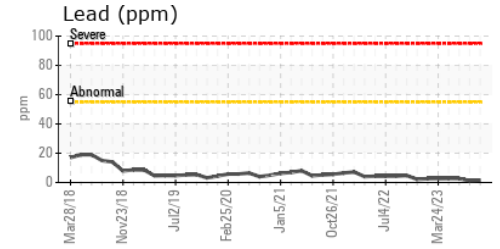
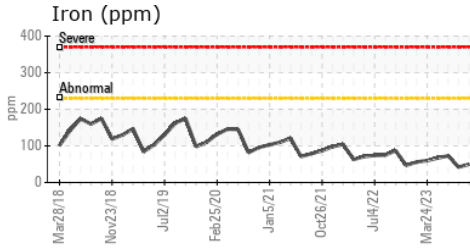
Color



Bottom



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0866563  
**Lab Number** : 02592710  
**Unique Number** : 5669789  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

**CITY OF THUNDER BAY**  
 AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD  
 THUNDER BAY, ON  
 CA P7B 2Z8  
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 T: (807)684-2716  
 F: (807)344-0237

*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.*