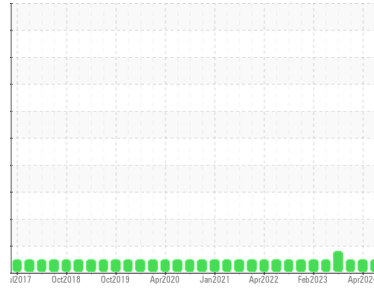




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Toronto Shunt**  
 Machine Id  
**Autocar 5008**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (16 LTR)**

## 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 oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0948285</b>	WC0915061	WC0886643
Sample Date	Client Info		<b>29 Jun 2024</b>	28 Apr 2024	07 Jan 2024
Machine Age	hrs	Client Info	<b>26060</b>	25701	25505
Oil Age	hrs	Client Info	<b>359</b>	39	76
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	0.5
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >130	<b>19</b>	32	13
Chromium	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >125	<b>2</b>	10	<1
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	0	0
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) 0	<b>4</b>	7	4
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 60	<b>58</b>	58	61
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m) 1010	<b>962</b>	975	994
Calcium	ppm	ASTM D5185(m) 1070	<b>1034</b>	1079	1134
Phosphorus	ppm	ASTM D5185(m) 1150	<b>1025</b>	1034	1079
Zinc	ppm	ASTM D5185(m) 1270	<b>1187</b>	1202	1229
Sulfur	ppm	ASTM D5185(m) 2060	<b>2588</b>	2662	2820
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

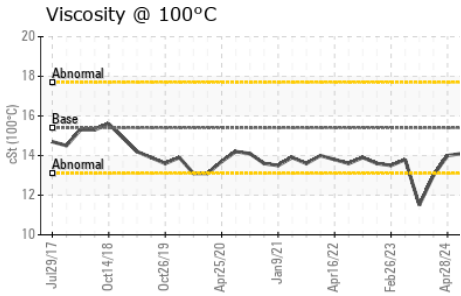
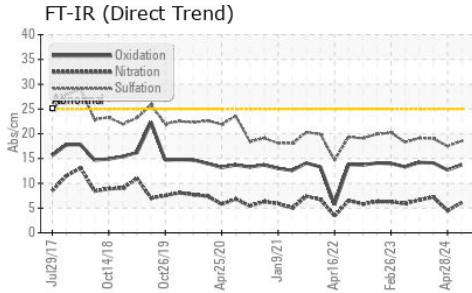
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>2</b>	5	3
Sodium	ppm	ASTM D5185(m)	<b>1</b>	2	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	1	<1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	<b>0.5</b>	0	0.7
Nitration	Abs/cm	ASTM D7624* >20	<b>6.1</b>	4.5	7.2
Sulfation	Abs./1mm	ASTM D7415* >30	<b>18.5</b>	17.5	19.0



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	13.7	12.7	14.1

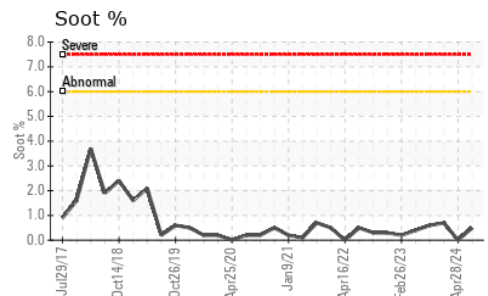
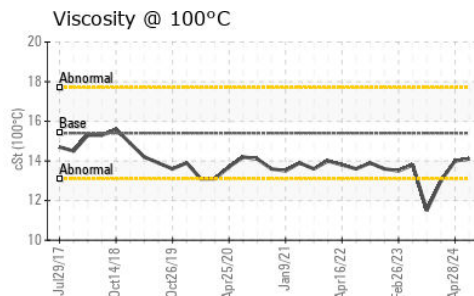
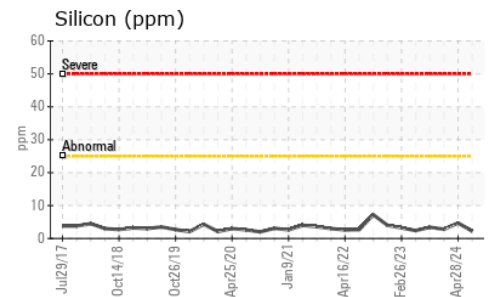
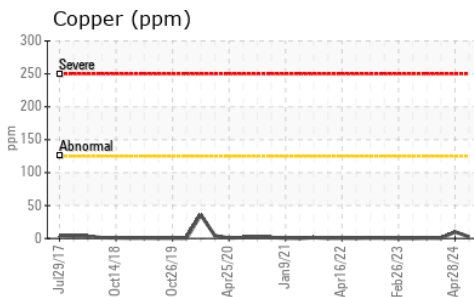
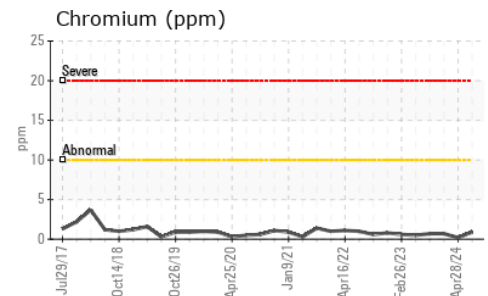
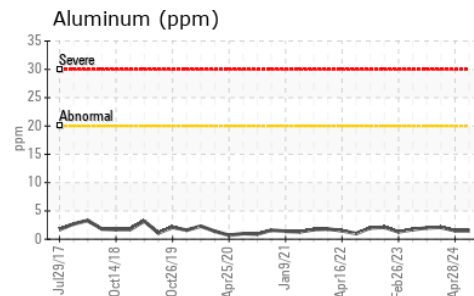
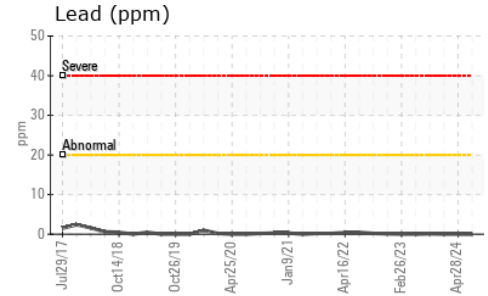
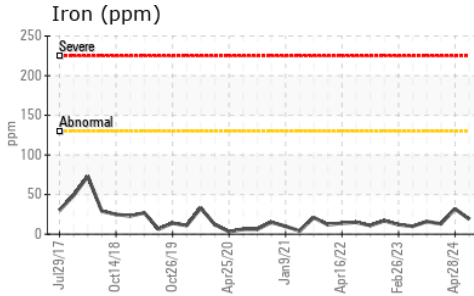
### VISUAL

	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

### FLUID PROPERTIES

	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	14.0	13.0

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **MANITOULIN TRANSPORT (GARAGE)**  
**Sample No.** : WC0948285 **Received** : 09 Jul 2024 1335 SHAWSON DRIVE  
**Lab Number** : 02646555 **Tested** : 09 Jul 2024 MISSISSAUGA, ON  
**Unique Number** : 5812107 **Diagnosed** : 09 Jul 2024 - Wes Davis CA L4W 1C4  
**Test Package** : MOB 1 Contact: Travis Spence  
 tspence@manitoulintransport.com

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.

F: (905)564-6361