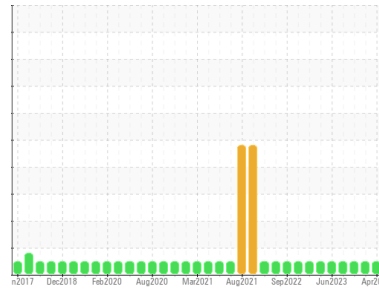




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Toronto Shunt
 Machine Id
Autocar 5007
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (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		WC0915093	WC0899662	WC0886697
Sample Date	Client Info		14 Apr 2024	25 Feb 2024	17 Dec 2023
Machine Age	hrs	Client Info	27056	26467	25948
Oil Age	hrs	Client Info	589	519	431
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>130	22	26	22
Chromium	ppm	ASTM D5185(m)	>10	1	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>20	0	<1	2
Copper	ppm	ASTM D5185(m)	>125	<1	2	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	2	3	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	62	62	62
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	1023	1006	1005
Calcium	ppm	ASTM D5185(m)	1050	1086	1085	1117
Phosphorus	ppm	ASTM D5185(m)	995	1042	1063	1076
Zinc	ppm	ASTM D5185(m)	1180	1248	1231	1217
Sulfur	ppm	ASTM D5185(m)	2600	2582	2819	2823
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

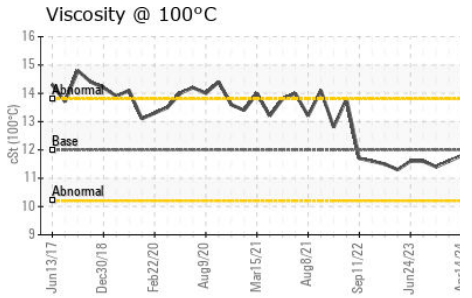
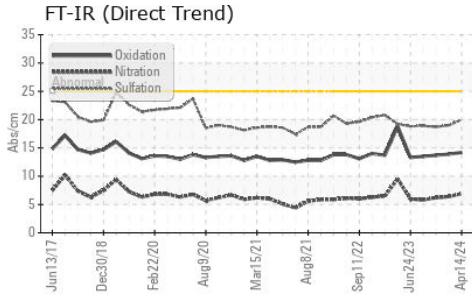
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	2	4	3
Sodium	ppm	ASTM D5185(m)		2	1	1
Potassium	ppm	ASTM D5185(m)	>20	<1	2	1

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.9	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.9	6.4	6.2
Sulfation	Abs./1mm	ASTM D7415*	>30	20.0	19.0	18.7



OIL ANALYSIS REPORT



FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	14.2	13.9

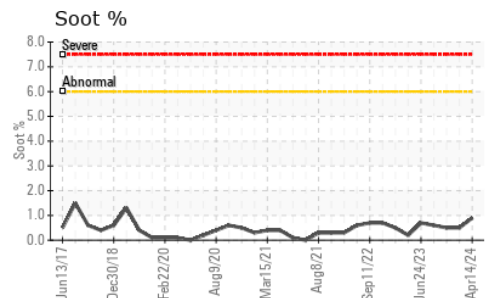
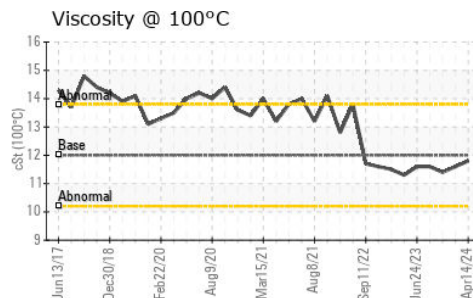
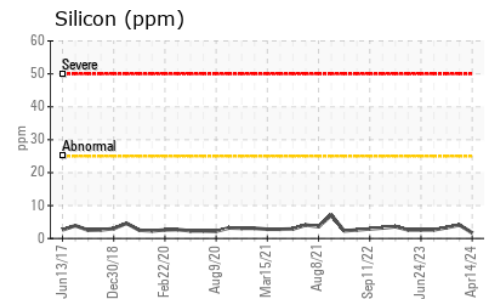
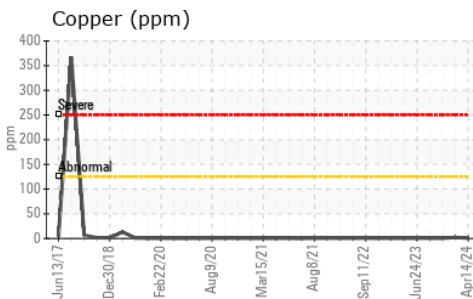
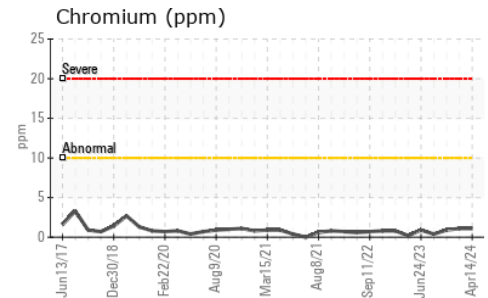
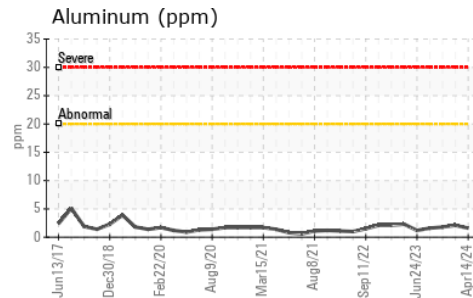
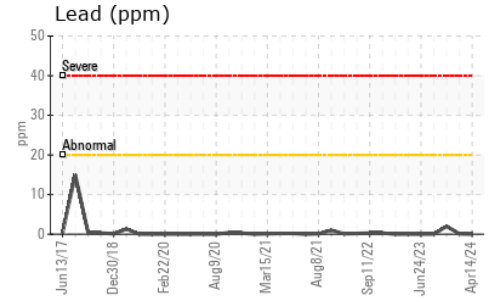
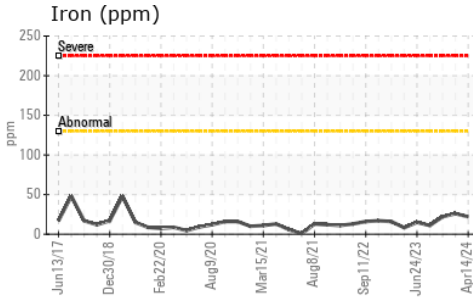
VISUAL

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

FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.8	11.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **MANITOULIN TRANSPORT (GARAGE)**
Sample No. : WC0915093 **Received** : 17 Apr 2024 1335 SHAWSON DRIVE
Lab Number : 02629477 **Tested** : 17 Apr 2024 MISSISSAUGA, ON
Unique Number : 5762609 **Diagnosed** : 17 Apr 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.

T: (905)564-6361