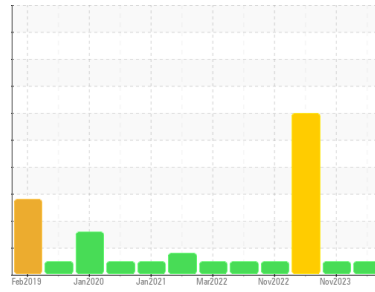




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
3000 Series
 Machine Id
Navistar 3817T
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (26 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			WC0899651	WC0817321	WC0828287
Sample Date	Client Info			06 Apr 2024	25 Nov 2023	12 Jun 2023
Machine Age	mls	Client Info		224195	208279	187054
Oil Age	mls	Client Info		20719	21222	20371
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	48	46	27
Chromium	ppm	ASTM D5185(m)	>5	2	2	2
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	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	10	6	4
Lead	ppm	ASTM D5185(m)	>25	3	3	7
Copper	ppm	ASTM D5185(m)	>100	157	102	▲ 266
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

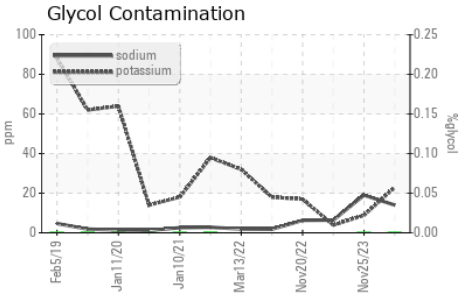
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	3	3	19
Barium	ppm	ASTM D5185(m)	0	0	<1	4
Molybdenum	ppm	ASTM D5185(m)	50	64	58	49
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	977	875	826
Calcium	ppm	ASTM D5185(m)	1050	1097	1027	1161
Phosphorus	ppm	ASTM D5185(m)	995	890	778	743
Zinc	ppm	ASTM D5185(m)	1180	1198	1090	835
Sulfur	ppm	ASTM D5185(m)	2600	2106	2024	1714
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	6	6
Sodium	ppm	ASTM D5185(m)		14	19	6
Potassium	ppm	ASTM D5185(m)	>20	23	9	4
Glycol	%	ASTM D7922*		0.0	0.0	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.7	0.8	0.4
Nitration	Abs/cm	ASTM D7624*	>20	12.6	13.3	12.8
Sulfation	Abs./1mm	ASTM D7415*	>30	23.0	25.0	22.7



OIL ANALYSIS REPORT

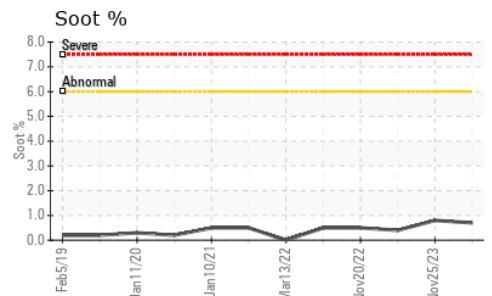
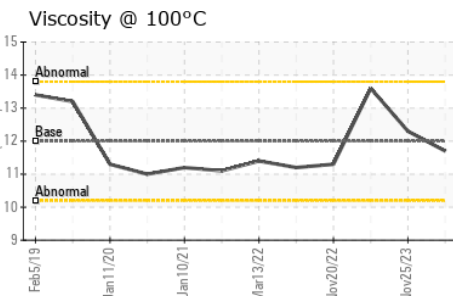
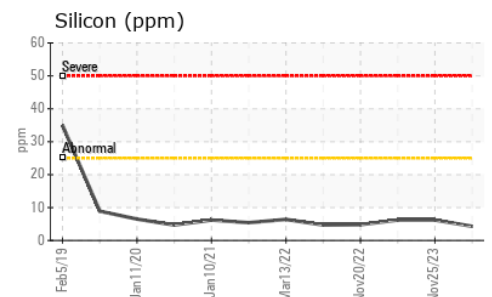
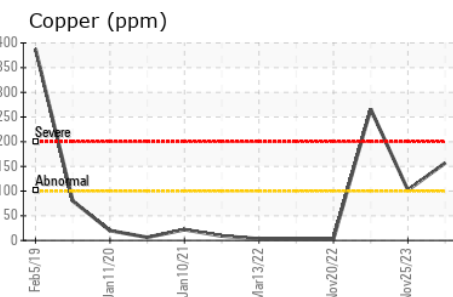
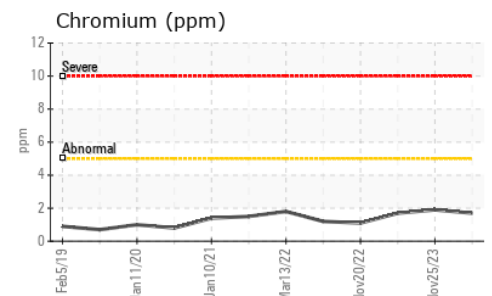
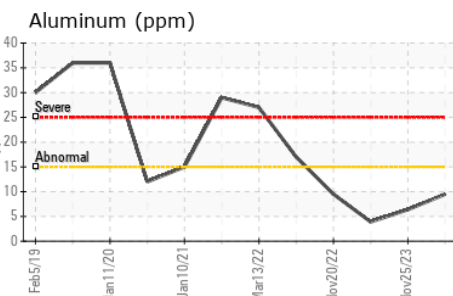
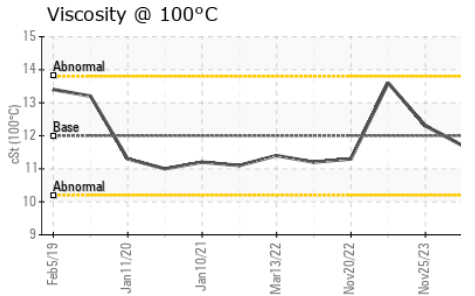
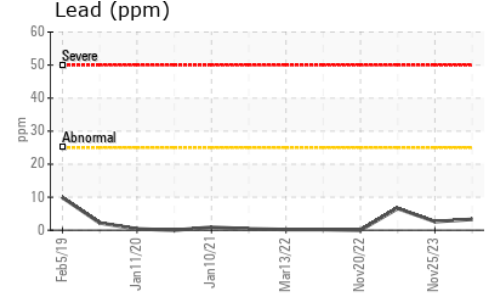
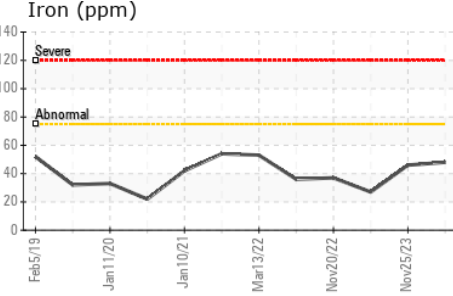
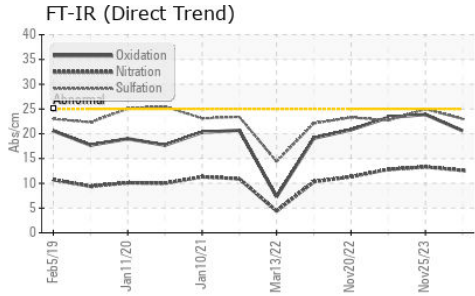


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	20.6	23.9	23.3

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)	12.00	11.7	12.3	13.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **MANITOULIN TRANSPORT (GARAGE)**
Sample No. : WC0899651 **Received** : 17 Apr 2024 1335 SHAWSON DRIVE
Lab Number : **02629542** **Tested** : 17 Apr 2024 MISSISSAUGA, ON
Unique Number : 5762674 **Diagnosed** : 17 Apr 2024 - Wes Davis CA L4W 1C4
Test Package : MOB 1 (Additional Tests: Glycol) 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