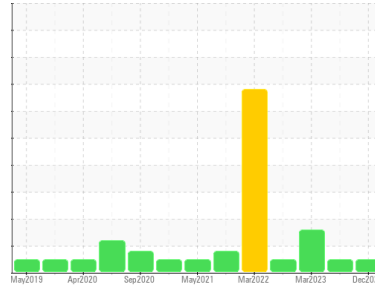




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**3000 Series [1761624]**  
 Machine Id  
**Navistar 3277**

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		<b>WC0886694</b>	WC0828331	WC0785999
Sample Date	Client Info		<b>16 Dec 2023</b>	22 Jul 2023	31 Mar 2023
Machine Age	mls	Client Info	<b>273830</b>	252241	231924
Oil Age	mls	Client Info	<b>21139</b>	20317	207840
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>75	<b>60</b>	47	▲ 75
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	1	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>14</b>	10	▲ 21
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<b>7</b>	2	4
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	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)	2	<b>1</b>	1	6
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>63</b>	61	66
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>1003</b>	1004	997
Calcium	ppm	ASTM D5185(m)	1050	<b>1124</b>	1065	1210
Phosphorus	ppm	ASTM D5185(m)	995	<b>1013</b>	1068	1089
Zinc	ppm	ASTM D5185(m)	1180	<b>1237</b>	1226	1249
Sulfur	ppm	ASTM D5185(m)	2600	<b>2494</b>	2437	2530
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

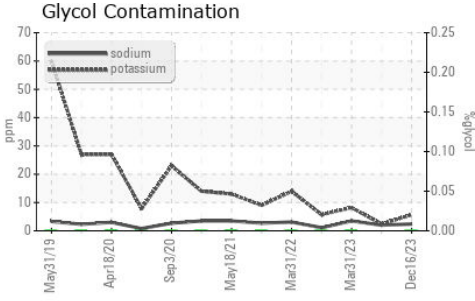
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	7	13
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	4
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	2	8
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	0.0

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>1.6</b>	1.2	1.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.0</b>	11.1	13.6
Sulfation	Abs.1mm	ASTM D7415*	>30	<b>24.4</b>	23.1	27.8



# OIL ANALYSIS REPORT

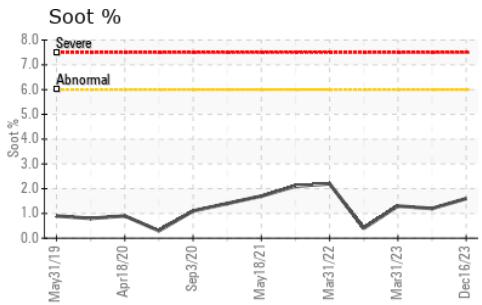
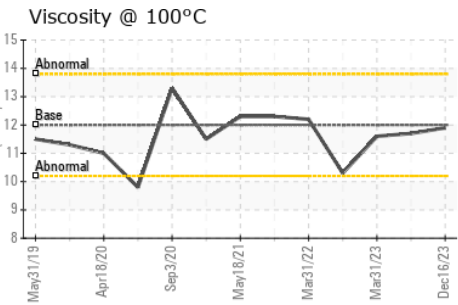
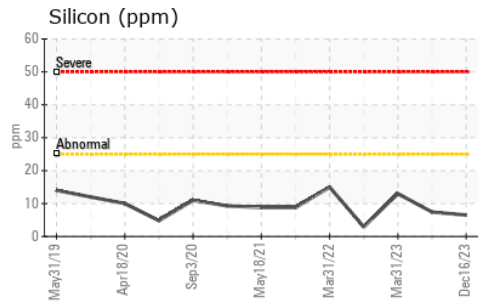
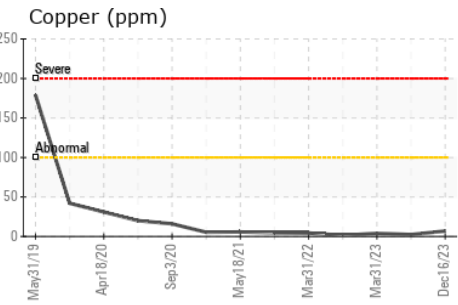
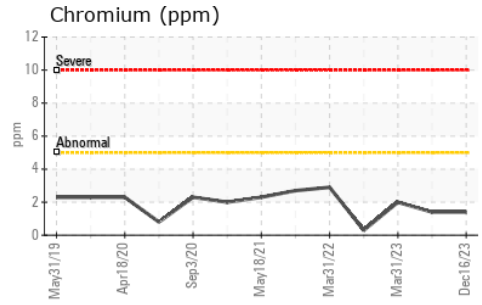
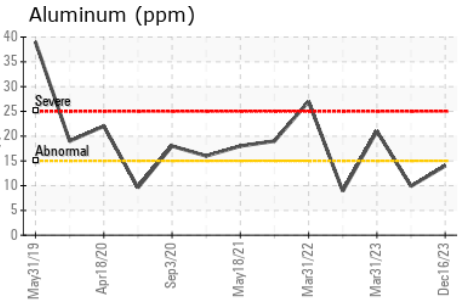
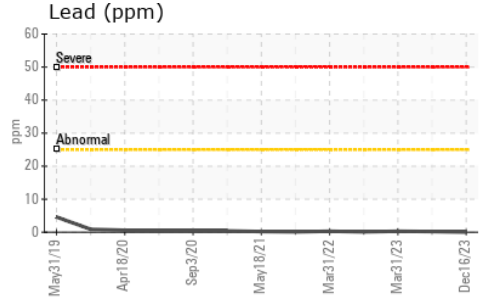
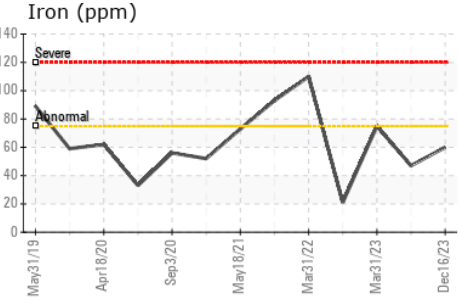
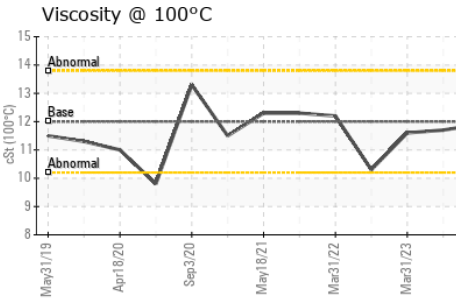


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>20.5</b>	19.2	23.3

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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.9</b>	11.7	11.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **MANITOU LIN TRANSPORT (GARAGE)**  
**Sample No.** : WC0886694 **Received** : 22 Dec 2023 1335 SHAWSON DRIVE  
**Lab Number** : 02604897 **Diagnosed** : 22 Dec 2023 MISSISSAUGA, ON  
**Unique Number** : 5697982 **Diagnostician** : Wes Davis CA L4W 1C4  
**Test Package** : MOB 1 ( Additional Tests: Glycol ) Contact: Travis Spence

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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