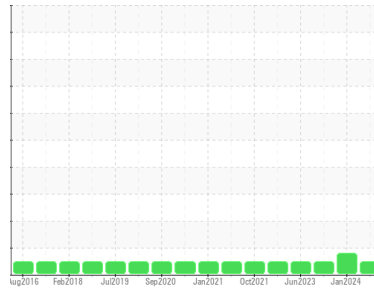




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**52000 series**  
 Machine Id  
**Navistar 52693**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (40 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>WC0958798</b>	WC0886649	WC0848056
Sample Date	Client Info			<b>07 Jul 2024</b>	27 Jan 2024	30 Sep 2023
Machine Age	mls	Client Info		<b>542345</b>	513840	486047
Oil Age	mls	Client Info		<b>28505</b>	27793	29580
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

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
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>165	<b>67</b>	100	39
Chromium	ppm	ASTM D5185(m)	>5	<b>2</b>	5	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>7</b>	9	6
Lead	ppm	ASTM D5185(m)	>150	<b>4</b>	4	<1
Copper	ppm	ASTM D5185(m)	>90	<b>2</b>	2	4
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	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

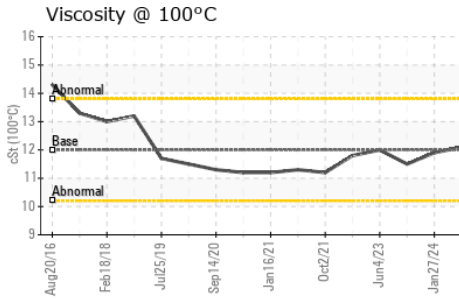
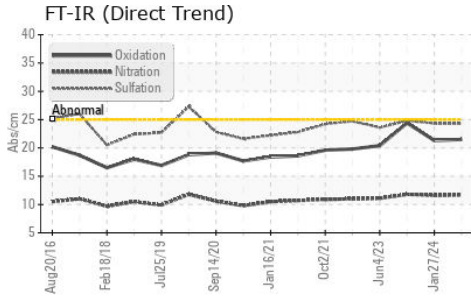
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	1	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	<b>65</b>	64	62
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	950	<b>1058</b>	1061	972
Calcium	ppm	ASTM D5185(m)	1050	<b>1171</b>	1202	1084
Phosphorus	ppm	ASTM D5185(m)	995	<b>1103</b>	1084	929
Zinc	ppm	ASTM D5185(m)	1180	<b>1321</b>	1287	1197
Sulfur	ppm	ASTM D5185(m)	2600	<b>2459</b>	2585	2411
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	<b>14</b>	29	5
Sodium	ppm	ASTM D5185(m)		<b>9</b>	8	3
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>7.5	<b>0.6</b>	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.7</b>	11.6	11.8
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>24.3</b>	24.3	24.8



# OIL ANALYSIS REPORT



## FLUID DEGRADATION

method	limit/base	current	history1	history2
Abs./1mm	ASTM D7414*	>25	21.3	24.4

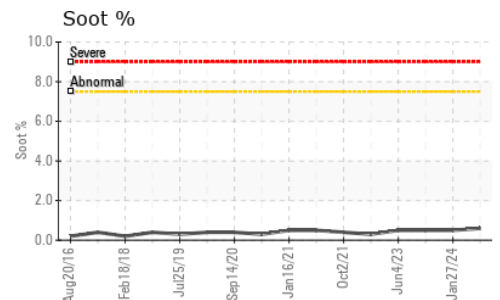
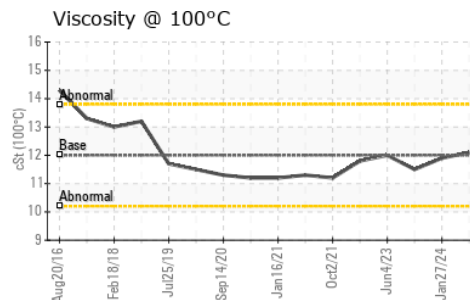
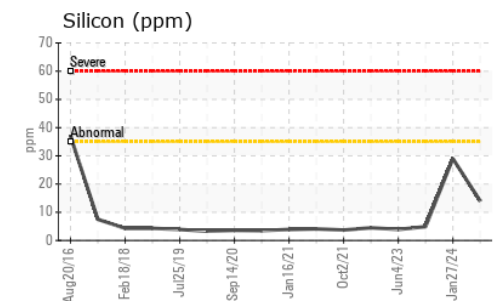
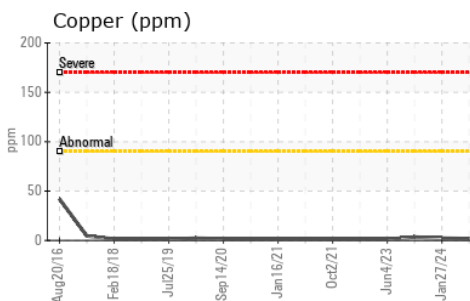
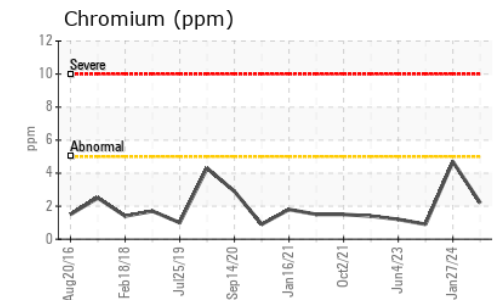
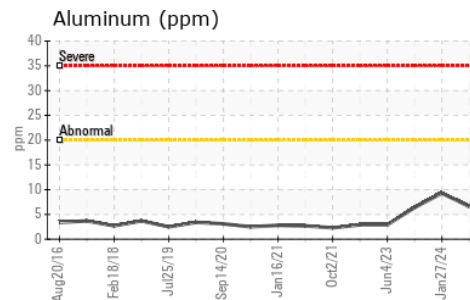
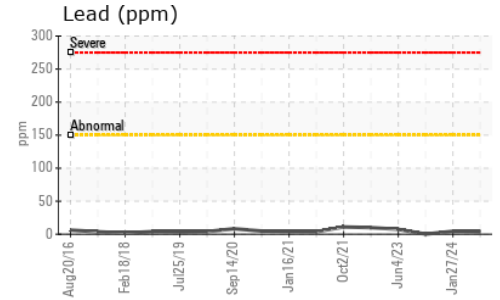
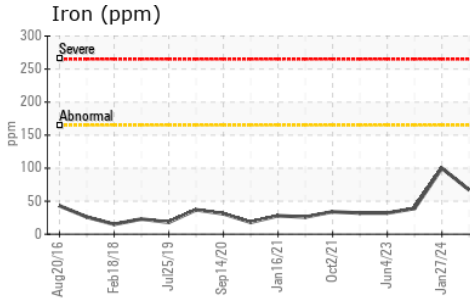
## VISUAL

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

## FLUID PROPERTIES

method	limit/base	current	history1	history2
cSt	ASTM D7279(m)	12.00	11.9	11.5

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **MANITOULIN TRANSPORT (GARAGE)**  
**Sample No.** : WC0958798 **Received** : 09 Jul 2024 1335 SHAWSON DRIVE  
**Lab Number** : 02646542 **Tested** : 09 Jul 2024 MISSISSAUGA, ON  
**Unique Number** : 5812094 **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