



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**52000 series**  
Machine Id  
**Navistar 52650**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (40 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0892035</b>	WC0828256	WC0639142
Sample Date		Client Info		<b>09 Jan 2024</b>	01 Sep 2023	15 Dec 2021
Machine Age	mls	Client Info		<b>602956</b>	578524	506882
Oil Age	mls	Client Info		<b>24432</b>	15854	25675
Filter Age	mls	Client Info		<b>24432</b>	15854	25675
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	<b>23</b>	20	26
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>7</b>	4	3
Lead	ppm	ASTM D5185(m)	>150	<b>2</b>	1	4
Copper	ppm	ASTM D5185(m)	>90	<b>2</b>	1	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

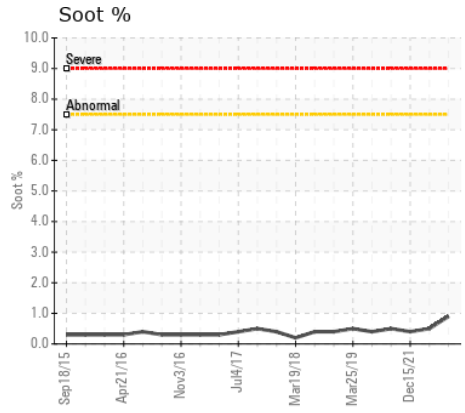
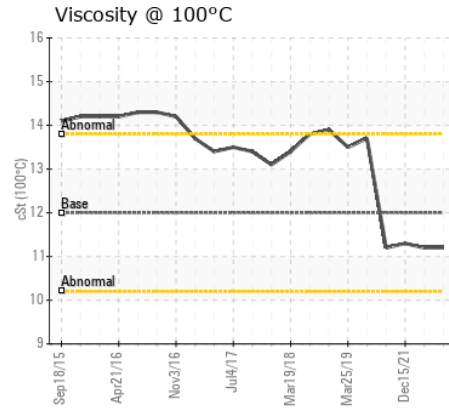
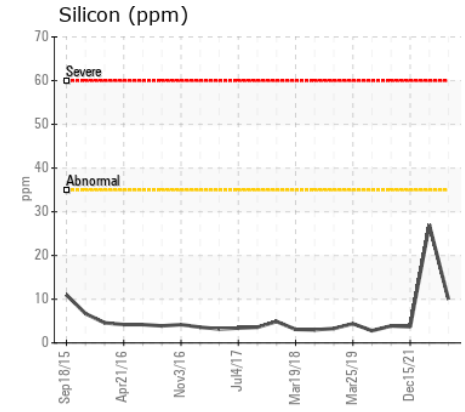
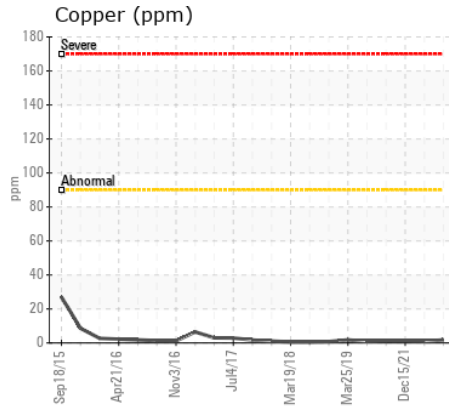
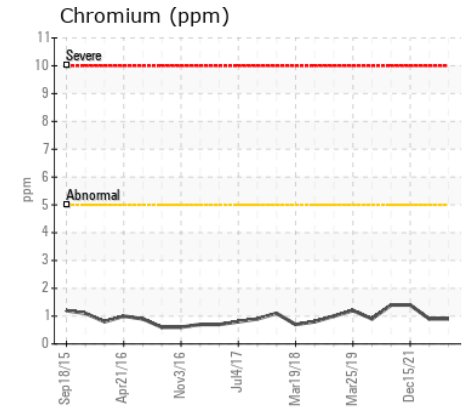
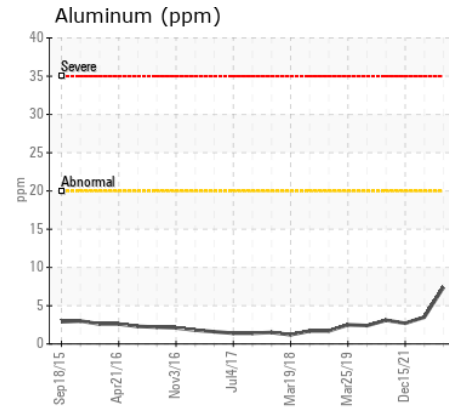
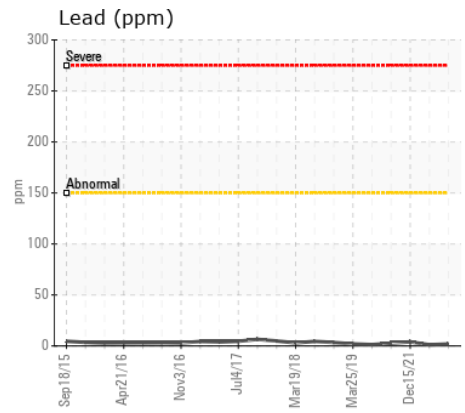
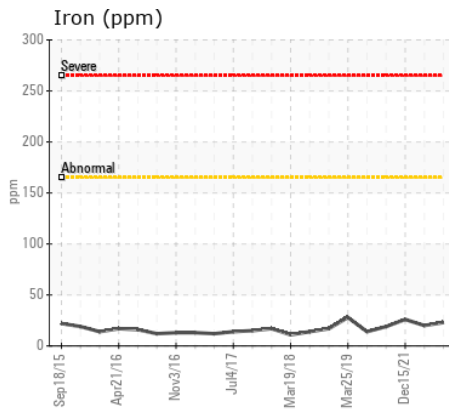
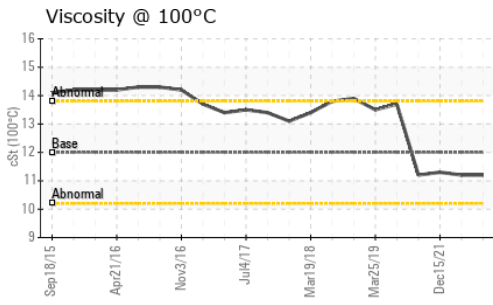
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>10</b>	27	4
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	5
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
Soot %	%	ASTM D7844*	>7.5	<b>0.9</b>	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.5</b>	8.5	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.9</b>	20.8	20.5
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>5</b>	6	3
Boron	ppm	ASTM D5185(m)	2	<b>4</b>	6	3
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>62</b>	61	62
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>979</b>	953	1030
Calcium	ppm	ASTM D5185(m)	1050	<b>1100</b>	1043	1106
Phosphorus	ppm	ASTM D5185(m)	995	<b>1037</b>	1053	1121
Zinc	ppm	ASTM D5185(m)	1180	<b>1201</b>	1181	1298
Sulfur	ppm	ASTM D5185(m)	2600	<b>2743</b>	2535	2583
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.7</b>	14.9	15.1
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	11.2	11.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0892035 **Received** : 18 Jan 2024  
**Lab Number** : 02609657 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 5710743 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.