



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**56000 series**  
Machine Id  
**Navistar 56154**  
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>WC0854807</b>	WC0844395	WC0797607
Sample Date		Client Info		<b>30 Dec 2023</b>	14 Aug 2023	09 Apr 2023
Machine Age	mls	Client Info		<b>694937</b>	397305	362649
Oil Age	mls	Client Info		<b>34507</b>	34657	332005
Filter Age	mls	Client Info		<b>34507</b>	34657	332005
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>3</b>	24	34
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	3	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	2
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	4	5
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

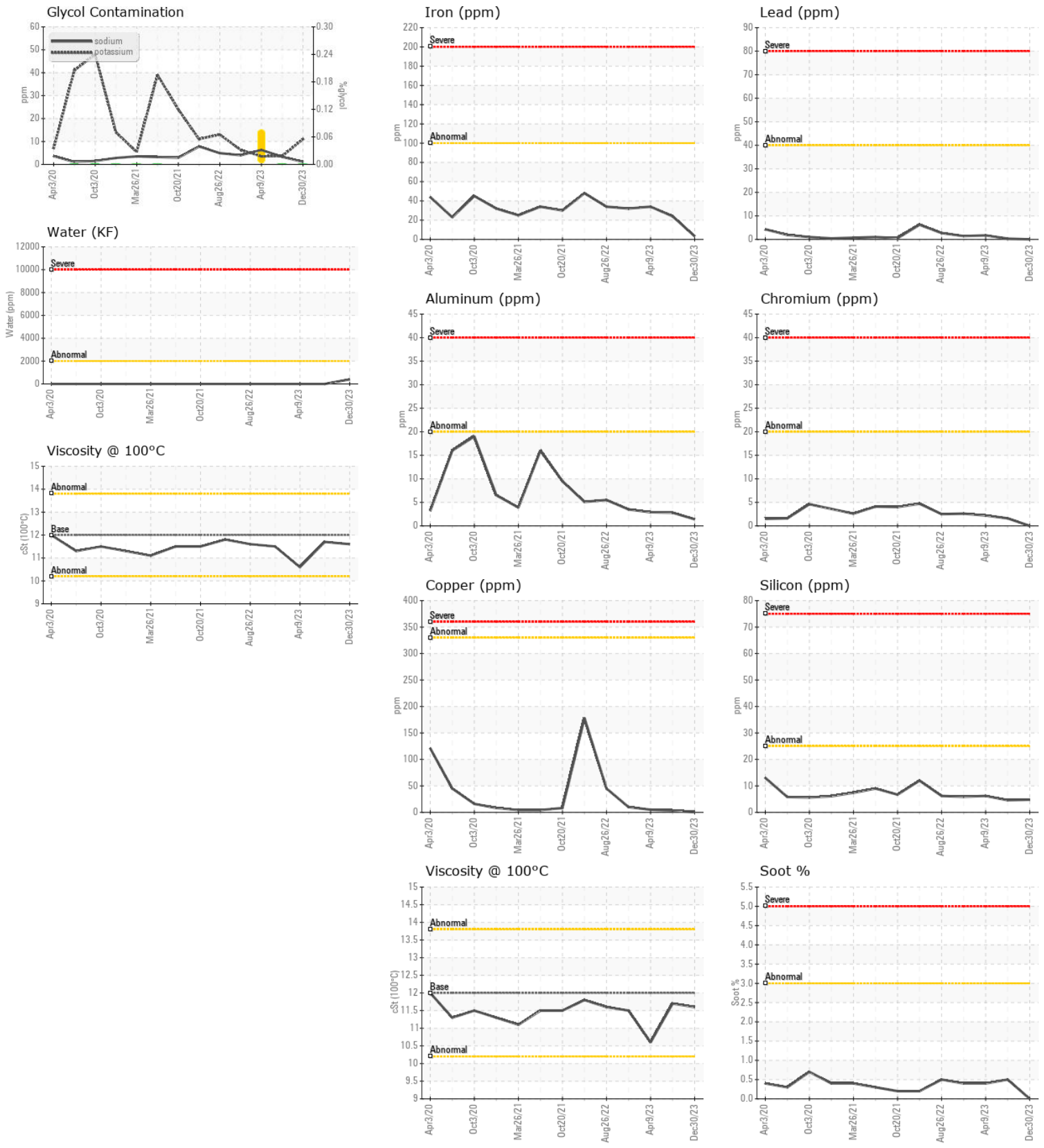
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	5	6
Potassium	ppm	ASTM D5185(m)	>20	<b>11</b>	4	4
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	%	ASTM D6304*	>0.2	<b>0.039</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>398</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	▲ 0.075
Soot %	%	ASTM D7844*	>3	<b>0</b>	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.8</b>	10.8	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.1</b>	23.4	25.5
Emulsified Water	scalar	Visual*	>0.2	<b>.2%</b>	NEG	▲ .2%

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>1</b>	3	6
Boron	ppm	ASTM D5185(m)	2	<b>6</b>	2	6
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>55</b>	64	65
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>920</b>	1029	980
Calcium	ppm	ASTM D5185(m)	1050	<b>994</b>	1109	1195
Phosphorus	ppm	ASTM D5185(m)	995	<b>989</b>	1051	1052
Zinc	ppm	ASTM D5185(m)	1180	<b>1121</b>	1236	1177
Sulfur	ppm	ASTM D5185(m)	2600	<b>2719</b>	2533	2599
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.3</b>	19.0	19.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.6</b>	11.7	10.6



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0854807 **Received** : 18 Jan 2024  
**Lab Number** : 02609640 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5710726 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KF )

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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