



# 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>WC0934979</b>	WC0904882	WC0892035
Sample Date		Client Info		<b>26 Jun 2024</b>	03 May 2024	09 Jan 2024
Machine Age	kms	Client Info		<b>1002915</b>	312032	602956
Oil Age	kms	Client Info		<b>32551</b>	30653	24432
Filter Age	kms	Client Info		<b>32551</b>	30653	24432
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>18</b>	29	23
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	16	7
Lead	ppm	ASTM D5185(m)	>150	<b>1</b>	0	2
Copper	ppm	ASTM D5185(m)	>90	<b>&lt;1</b>	12	2
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

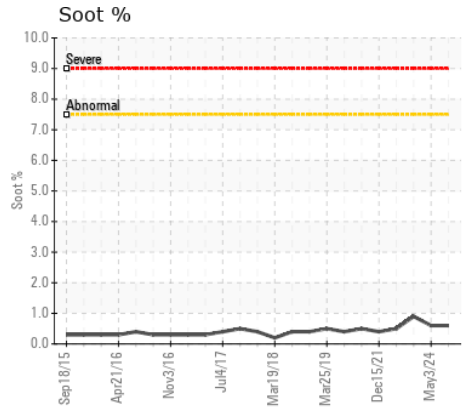
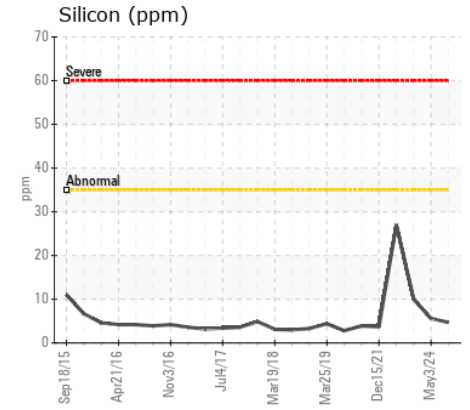
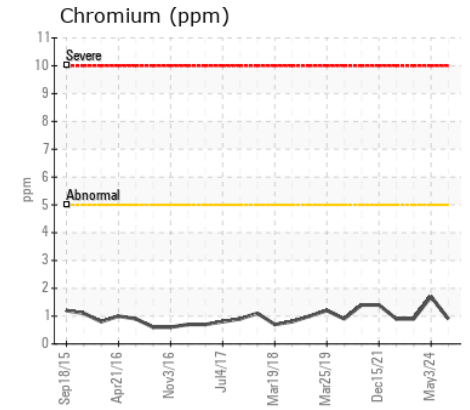
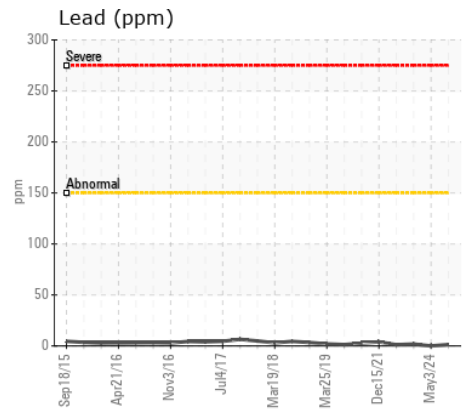
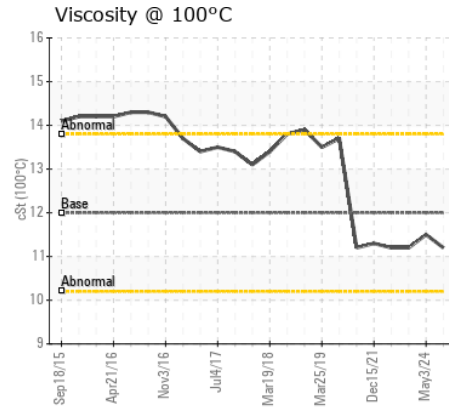
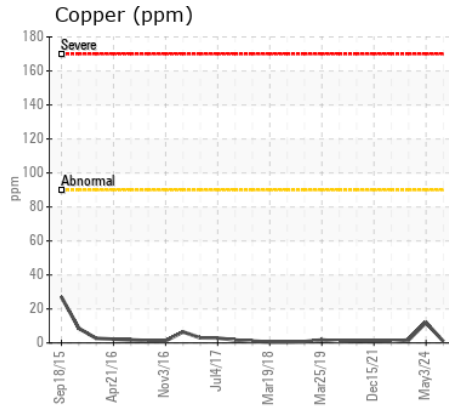
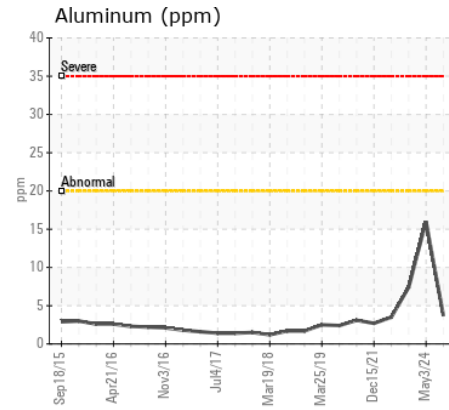
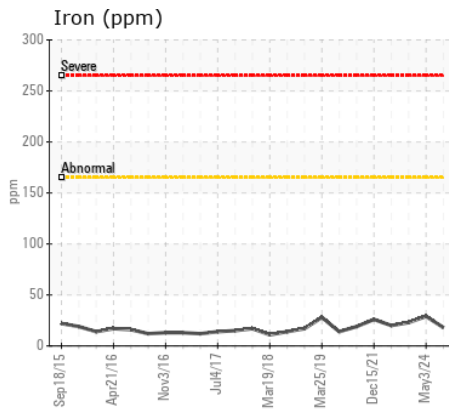
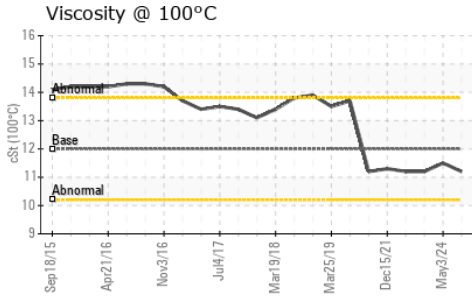
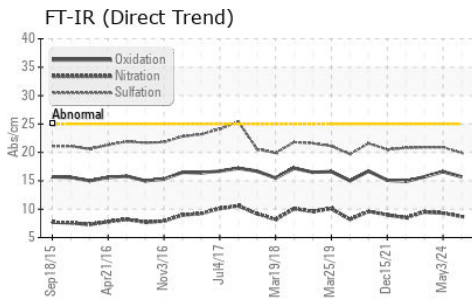
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>5</b>	6	10
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	2
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>0.6</b>	0.6	0.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.7</b>	9.3	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.9</b>	20.9	20.9
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>4</b>	4	5
Boron	ppm	ASTM D5185(m)	2	<b>4</b>	4	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>61</b>	62	62
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	950	<b>976</b>	967	979
Calcium	ppm	ASTM D5185(m)	1050	<b>1079</b>	1087	1100
Phosphorus	ppm	ASTM D5185(m)	995	<b>1018</b>	931	1037
Zinc	ppm	ASTM D5185(m)	1180	<b>1247</b>	1178	1201
Sulfur	ppm	ASTM D5185(m)	2600	<b>2561</b>	2290	2743
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.7</b>	16.6	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	11.5	11.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0934979  
**Lab Number** : 02645805  
**Unique Number** : 5803344  
**Test Package** : MOB 1  
**Received** : 05 Jul 2024  
**Tested** : 05 Jul 2024  
**Diagnosed** : 05 Jul 2024 - Wes Davis

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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.