



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**52000 series**  
Machine Id  
**Navistar 52569**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (40 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0847633</b>	WC0805683	WC0753347
Sample Date		Client Info		<b>15 Sep 2023</b>	29 May 2023	20 Nov 2022
Machine Age	mls	Client Info		<b>482123</b>	463444	442652
Oil Age	mls	Client Info		<b>18680</b>	20792	14780
Filter Age	mls	Client Info		<b>18680</b>	20792	14780
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)	>90	<b>33</b>	35	24
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	1	2
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	3	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

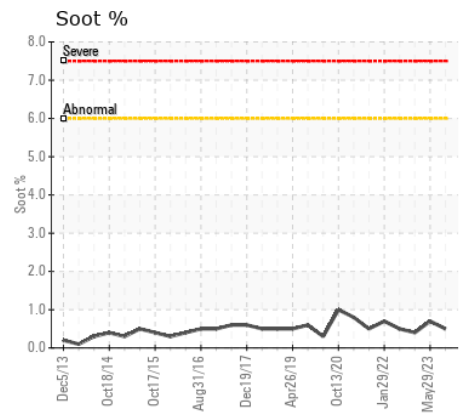
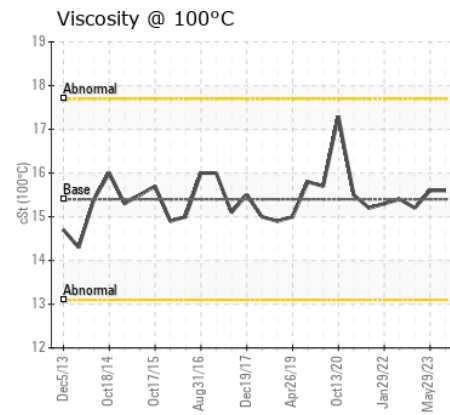
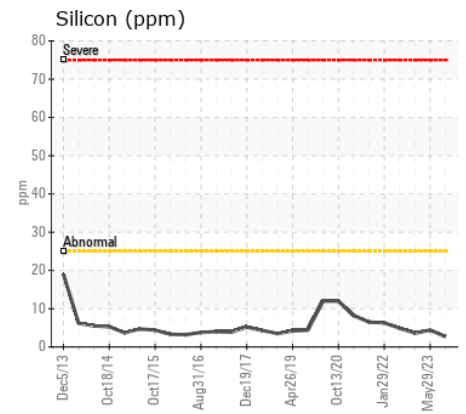
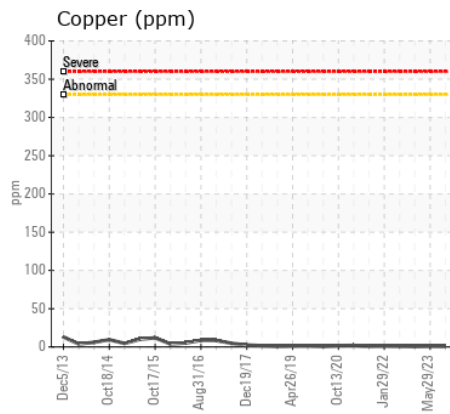
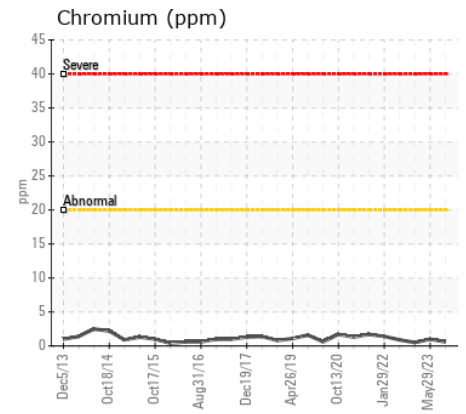
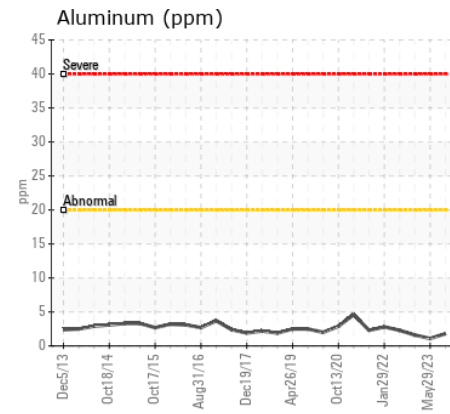
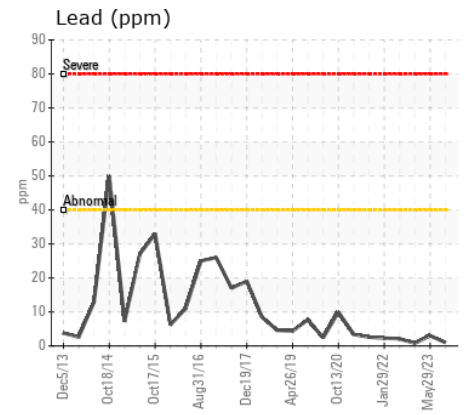
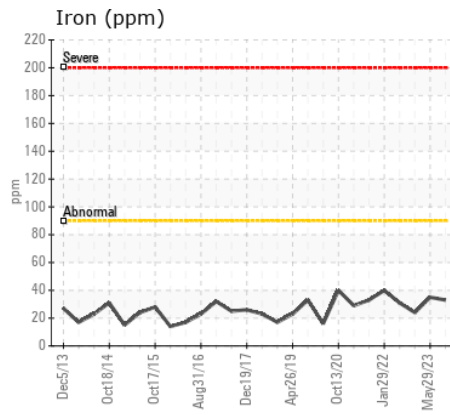
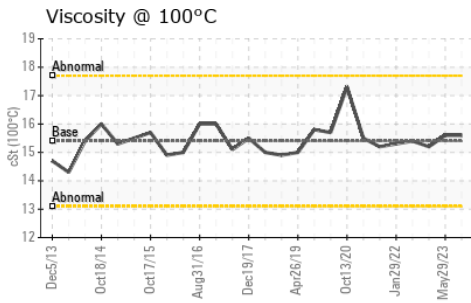
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
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*	>6	<b>0.5</b>	0.7	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.7</b>	14.6	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.3</b>	29.6	26.2
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>2</b>	2	2
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>69</b>	71	66
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1124</b>	1167	1061
Calcium	ppm	ASTM D5185(m)	1070	<b>1213</b>	1250	1280
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1118</b>	1239	1210
Zinc	ppm	ASTM D5185(m)	1270	<b>1345</b>	1399	1364
Sulfur	ppm	ASTM D5185(m)	2060	<b>2544</b>	2595	2706
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.4</b>	28.9	23.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>15.6</b>	15.6	15.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0847633  
**Lab Number** : 02625557  
**Unique Number** : 5750676  
**Test Package** : MOB 1  
**Received** : 01 Apr 2024  
**Tested** : 01 Apr 2024  
**Diagnosed** : 01 Apr 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.