



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**(GMN476) City Of Mount Pearl**  
Machine Id  
**INTERNATIONAL Dual Arm Garbage Truck, 20-13G**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (24 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>OF0000730</b>	OF0000459	OF0000285
Sample Date		Client Info		<b>17 Jun 2024</b>	23 Jan 2023	13 Sep 2021
Machine Age	hrs	Client Info		<b>3969</b>	2351	866
Oil Age	hrs	Client Info		<b>806</b>	1485	688
Filter Age	hrs	Client Info		<b>250</b>	981	37
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not 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>30</b>	81	64
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	3	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>6</b>	10	9
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	3	8
Copper	ppm	ASTM D5185(m)	>330	<b>5</b>	79	207
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	1	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

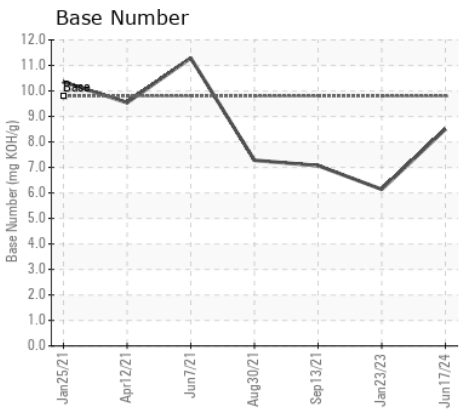
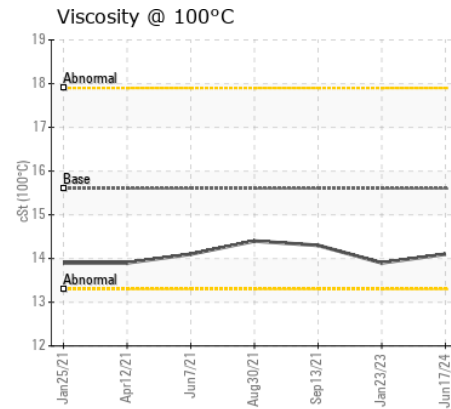
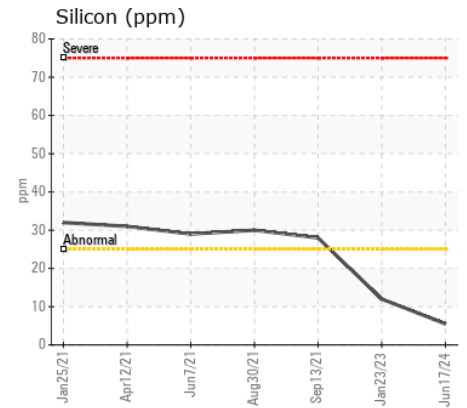
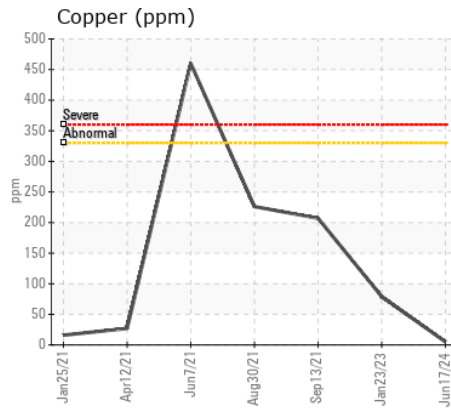
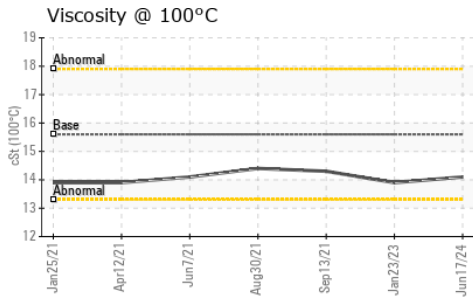
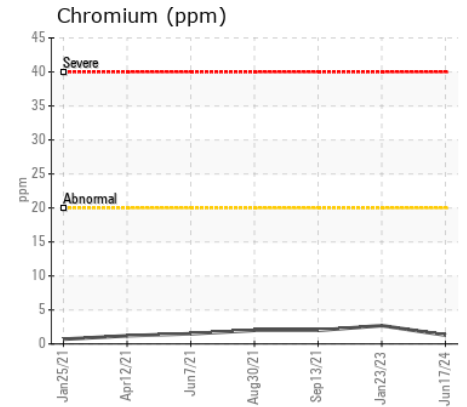
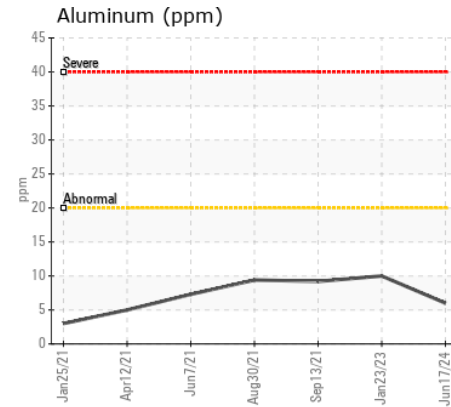
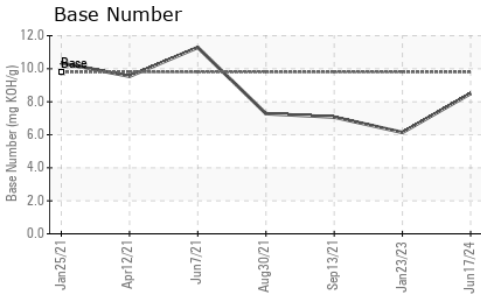
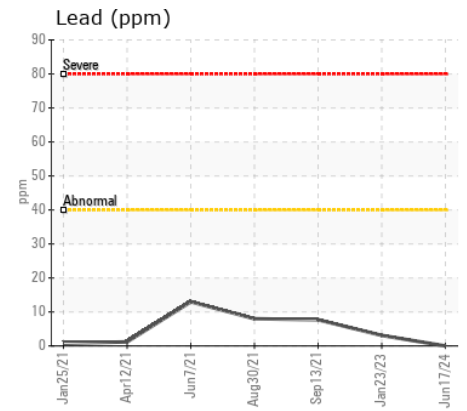
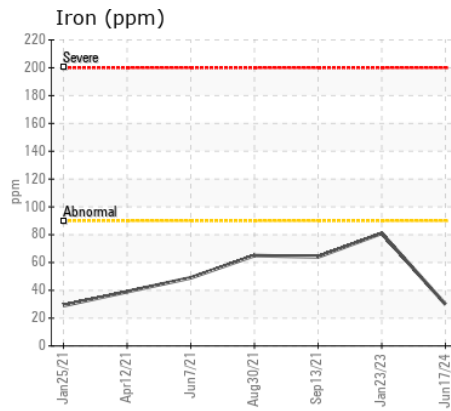
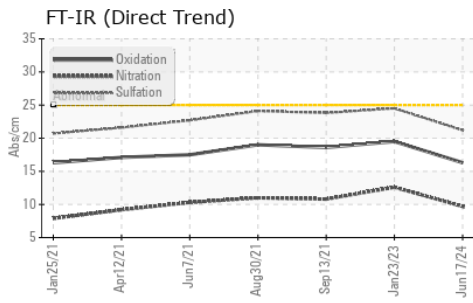
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	12	28
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	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*	>6	<b>0.9</b>	1.5	0.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	12.6	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.2</b>	24.5	23.8
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	6	7
Boron	ppm	ASTM D5185(m)	0	<b>1</b>	2	14
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	1	7
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	59	42
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	2	5
Magnesium	ppm	ASTM D5185(m)	1010	<b>954</b>	883	550
Calcium	ppm	ASTM D5185(m)	1070	<b>1022</b>	1242	1580
Phosphorus	ppm	ASTM D5185(m)	1150	<b>930</b>	939	1013
Zinc	ppm	ASTM D5185(m)	1270	<b>1139</b>	1237	1179
Sulfur	ppm	ASTM D5185(m)	2060	<b>2293</b>	1994	2259
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.3</b>	19.5	18.6
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	<b>8.50</b>	6.14	7.07
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.1</b>	13.9	14.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : OF0000730  
**Lab Number** : 02644138  
**Unique Number** : 5801677  
**Test Package** : MOB 2  
**Received** : 26 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 2024 - Wes Davis

**Oil Filtration Solutions Ltd.**  
 PO BOX 16125  
 CONCEPTION BAY SOUTH, NL  
 CA A1X 2E2  
 Contact: BILL BUTLER  
 BBUTLER@OILFILTRATIONSOLUTIONS.COM  
 T: (709)834-8433  
 F: (709)834-8435

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.