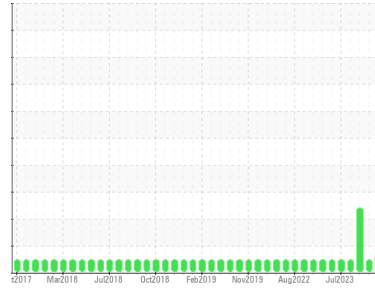


Area  
**MCGINN BUS COMPANY**  
 Machine Id  
**11423**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (36 QTS)**



**DIAGNOSIS**

**Recommendation**  
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**  
 The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

**Contamination**  
 There is no indication of any contamination in the oil.

**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.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0104735</b>	PCA0104412	PCA0090528
Sample Date	Client Info		<b>02 Mar 2024</b>	19 Dec 2023	21 Oct 2023
Machine Age	mls	Client Info	<b>547301</b>	535602	522995
Oil Age	mls	Client Info	<b>24000</b>	12000	24000
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	NORMAL	SEVERE

CONTAMINATION	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	0.2	▲ 9.4
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	<b>12</b>	4	72
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	3
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	2	4
Lead	ppm	ASTM D5185m >40	<b>7</b>	0	13
Copper	ppm	ASTM D5185m >330	▲ <b>257</b>	0	2
Tin	ppm	ASTM D5185m >15	<b>0</b>	0	3
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>4</b>	3	5
Barium	ppm	ASTM D5185m 0	<b>0</b>	4	0
Molybdenum	ppm	ASTM D5185m 60	<b>60</b>	62	49
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 1010	<b>959</b>	940	795
Calcium	ppm	ASTM D5185m 1070	<b>1065</b>	1084	878
Phosphorus	ppm	ASTM D5185m 1150	<b>953</b>	1072	826
Zinc	ppm	ASTM D5185m 1270	<b>1195</b>	1245	1012
Sulfur	ppm	ASTM D5185m 2060	<b>3155</b>	3516	2472

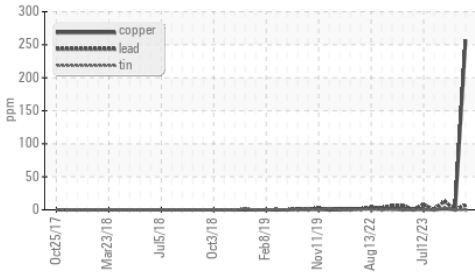
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>22</b>	32	5
Sodium	ppm	ASTM D5185m	<b>27</b>	11	4
Potassium	ppm	ASTM D5185m >20	<b>15</b>	9	0

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	<b>0.4</b>	0.3	5.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.8</b>	7.9	17.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.5</b>	19.7	32.7

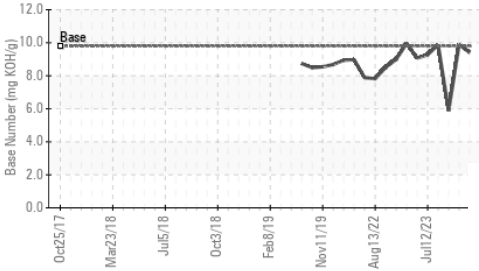
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.0</b>	15.6	21.0
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>9.41</b>	9.89	5.89

# OIL ANALYSIS REPORT

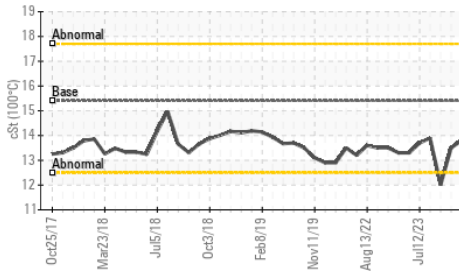
▲ **Non-ferrous Metals**



**Base Number**



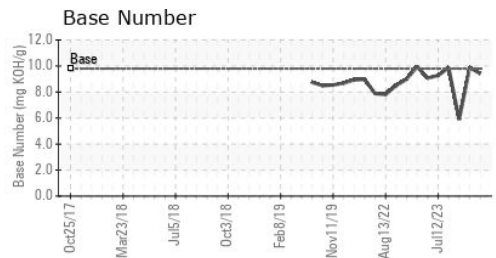
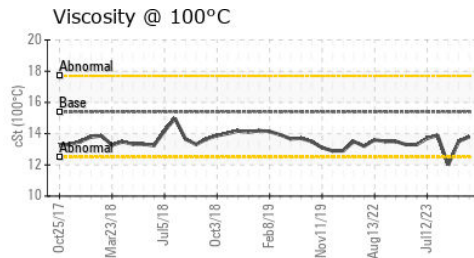
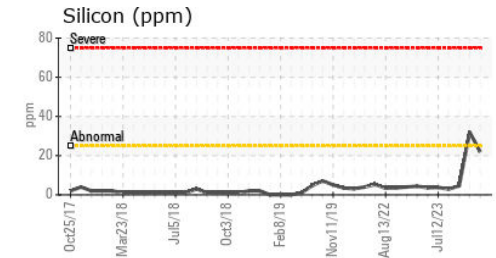
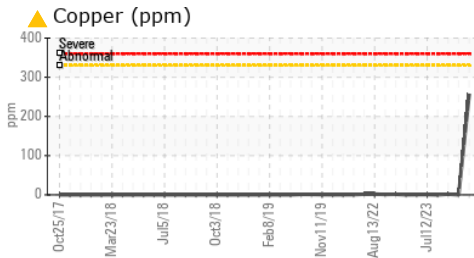
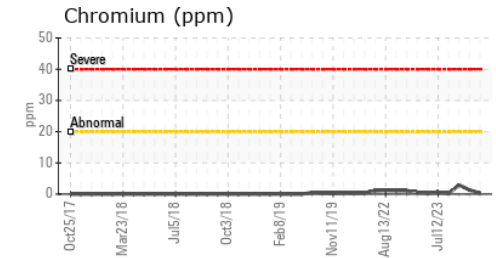
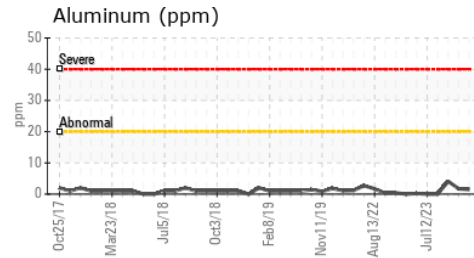
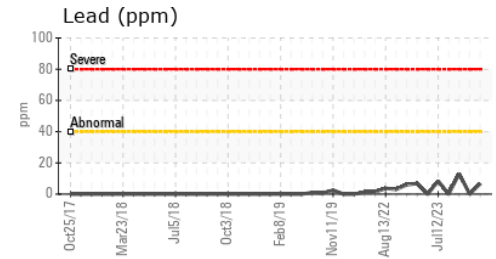
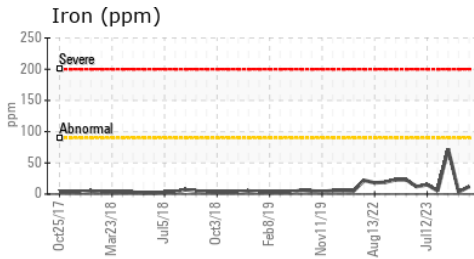
**Viscosity @ 100°C**



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.5 ▲ 12.0

**GRAPHS**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104735 **Received** : 28 Mar 2024  
**Lab Number** : 06132242 **Tested** : 29 Mar 2024  
**Unique Number** : 10951707 **Diagnosed** : 02 Apr 2024 - Sean Felton  
**Test Package** : MOB 2

**MGINN BUS CO**  
 36 ALLEY ST  
 LYNN, MA  
 US 01902

Contact: TOM SCHULZ  
 tommcginbus@aol.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: