



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**RAM 107**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (12 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0081961</b>	PC0075180	PC0069218
Sample Date		Client Info		<b>11 Dec 2023</b>	15 Aug 2023	16 Jan 2023
Machine Age	kms	Client Info		<b>336892</b>	315387	289853
Oil Age	kms	Client Info		<b>21505</b>	25534	25509
Filter Age	kms	Client Info		<b>21505</b>	25534	25509
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>130	<b>54</b>	▲ 157	112
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	3	3
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	13	8
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>125	<b>2</b>	7	2
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

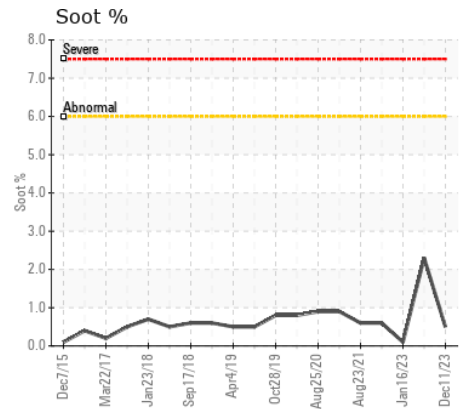
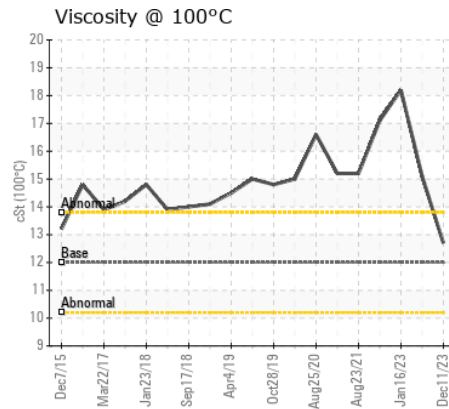
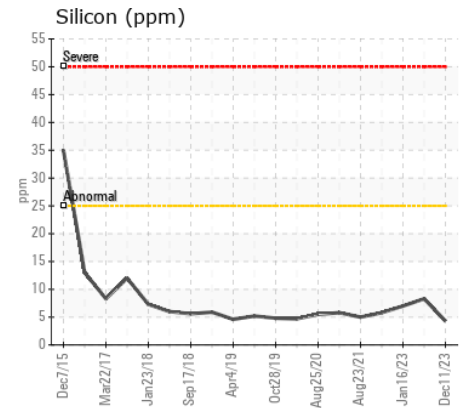
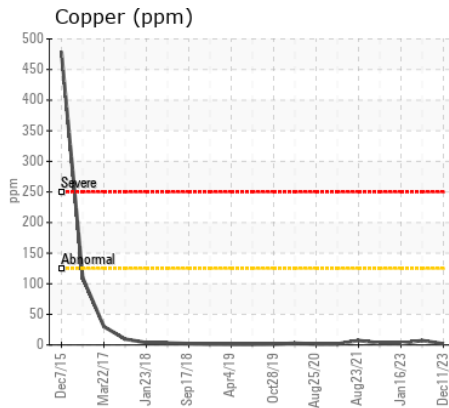
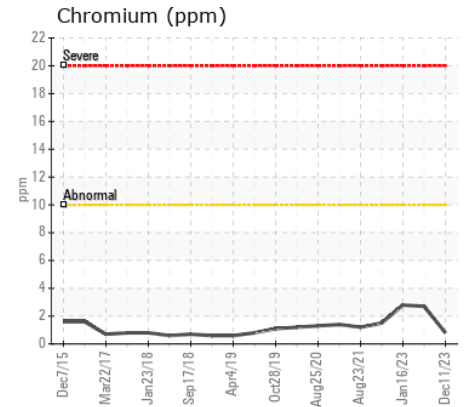
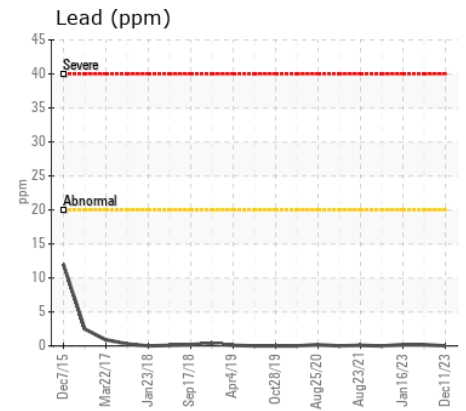
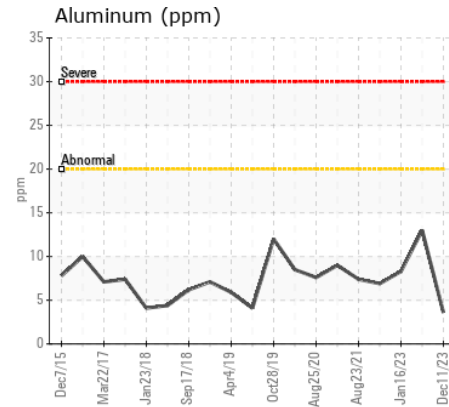
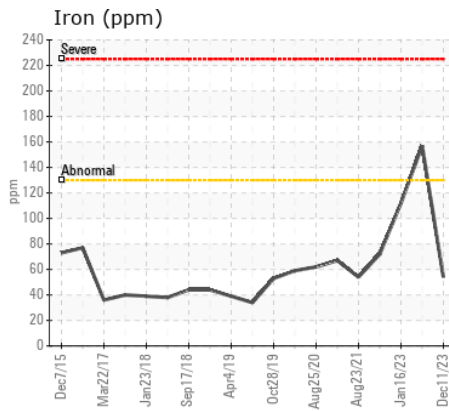
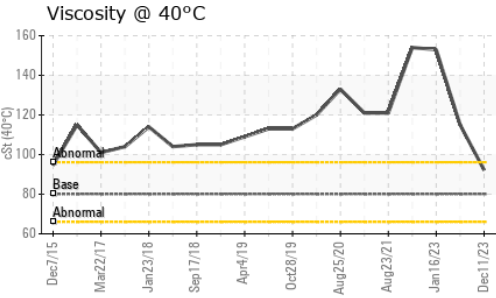
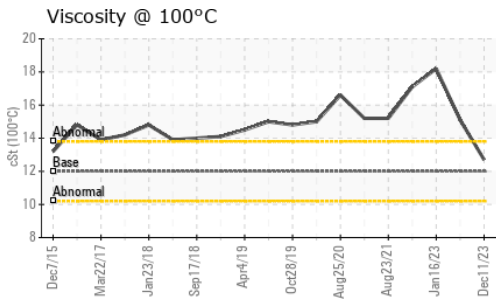
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	8	7
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	17	18
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>	0.0	0.0
Soot %	%	ASTM D7844*	>6	<b>0.5</b>	2.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.9</b>	▲ 20.7	7.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.3</b>	▲ 35.2	17.8
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>8</b>	36	34
Boron	ppm	ASTM D5185(m)	2	<b>3</b>	2	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>61</b>	65	66
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	2	1
Magnesium	ppm	ASTM D5185(m)	950	<b>958</b>	1011	1031
Calcium	ppm	ASTM D5185(m)	1050	<b>1068</b>	1036	1196
Phosphorus	ppm	ASTM D5185(m)	995	<b>973</b>	1067	1118
Zinc	ppm	ASTM D5185(m)	1180	<b>1183</b>	1205	1298
Sulfur	ppm	ASTM D5185(m)	2600	<b>2238</b>	2079	2116
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>29.9</b>	▲ 43.0	13.8
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	<b>92.2</b>	▲ 115	153
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>12.7</b>	▲ 15.1	18.2
Viscosity Index (VI)	Scale	ASTM D2270*	144	<b>134</b>	136	132



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ROSS TOWING & TRANSPORTATION SERVICES INC  
**Sample No.** : PC0081961 **Received** : 04 Jan 2024  
**Lab Number** : 02606438 **Diagnosed** : 05 Jan 2024  
**Unique Number** : 5707524 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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.