



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



Machine Id  
**MACK 6342**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (38 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0083000</b>	PC0071353	PC0071888
Sample Date		Client Info		<b>27 Mar 2024</b>	07 Nov 2023	30 Jun 2023
Machine Age	hrs	Client Info		<b>24327</b>	23486	22531
Oil Age	hrs	Client Info		<b>850</b>	955	881
Filter Age	hrs	Client Info		<b>850</b>	955	881
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>7</b>	11	9
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<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>2</b>	4	5
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

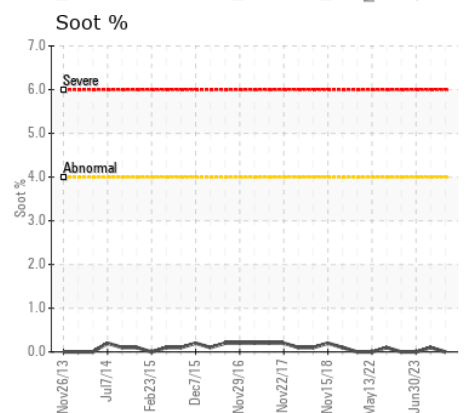
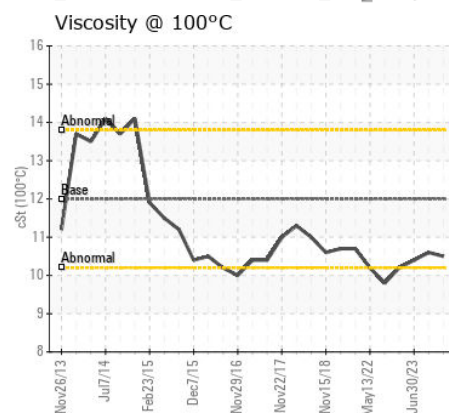
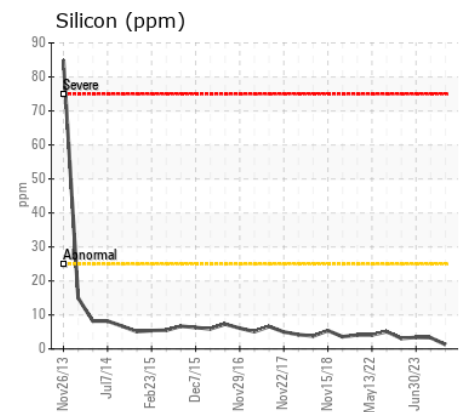
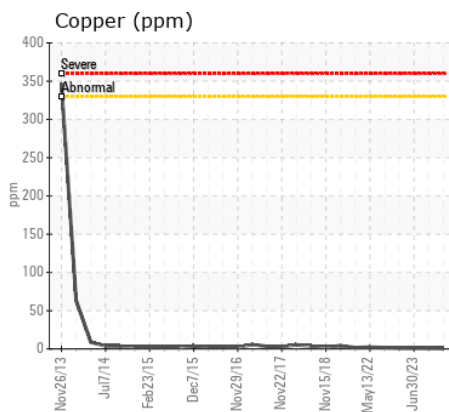
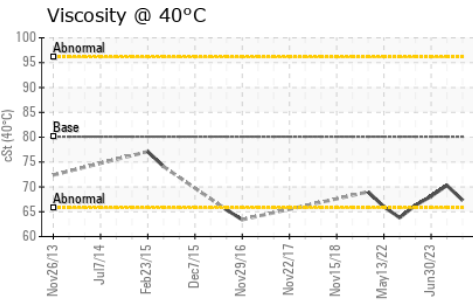
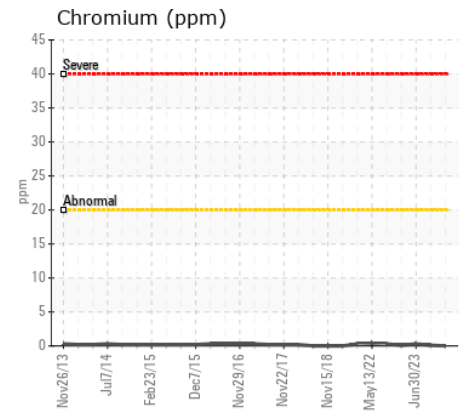
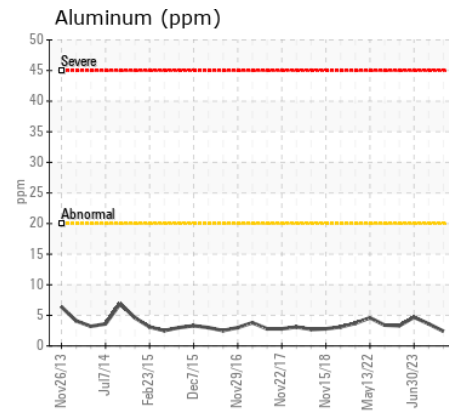
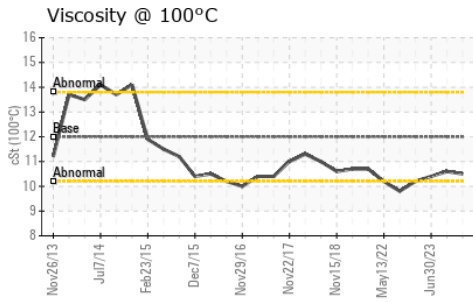
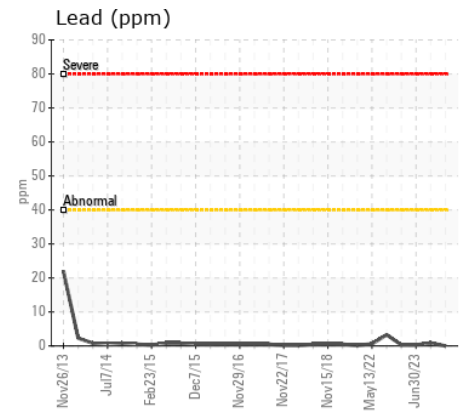
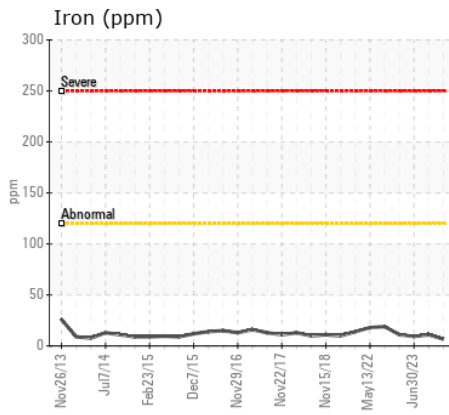
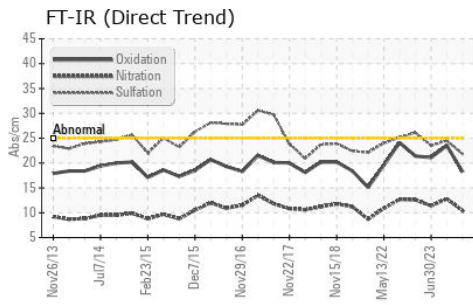
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>1</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
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*	>4	<b>0</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.4</b>	12.8	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.8</b>	24.5	23.5
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>5</b>	10	11
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	<1	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>57</b>	58	58
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>936</b>	937	951
Calcium	ppm	ASTM D5185(m)	1050	<b>1011</b>	1011	1003
Phosphorus	ppm	ASTM D5185(m)	995	<b>942</b>	974	1030
Zinc	ppm	ASTM D5185(m)	1180	<b>1132</b>	1144	1166
Sulfur	ppm	ASTM D5185(m)	2600	<b>2252</b>	2032	1959
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.2</b>	23.5	21.1
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	<b>67.3</b>	70.3	68.1
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>10.5</b>	10.6	10.4
Viscosity Index (VI)	Scale	ASTM D2270*	144	<b>143</b>	138	139



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083000 **Received** : 16 Apr 2024  
**Lab Number** : 02629121 **Tested** : 16 Apr 2024  
**Unique Number** : 5762253 **Diagnosed** : 16 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**Wasteco**  
 235 Curtis Drive  
 Guelph, ON  
 CA N1K 1Y3  
 Contact: Craig Albers  
 calbers@wasteco.com  
 T:  
 F: (519)836-4531

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.