

Area  
**MICHAUDVILLE**  
Machine Id  
**1597**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0083763</b>	PC0088534	PC0082467
Sample Date		Client Info		<b>14 Apr 2024</b>	03 Apr 2024	26 Nov 2023
Machine Age	hrs	Client Info		<b>24204</b>	24169	23703
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>6</b>	23	58
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	3	4
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	4	25
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

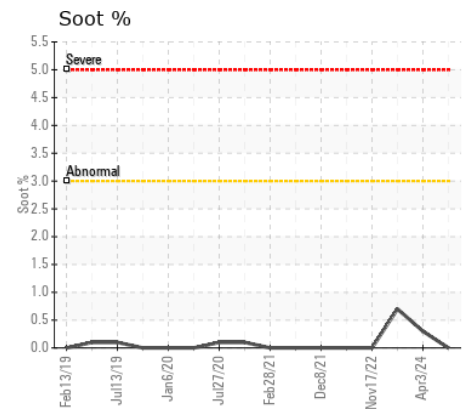
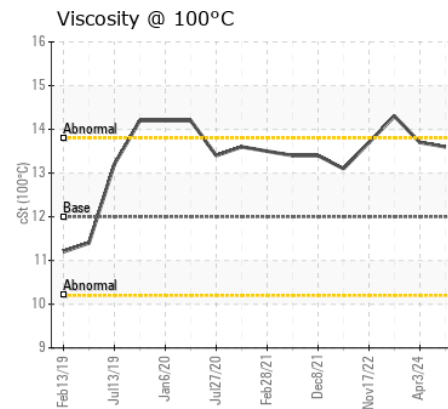
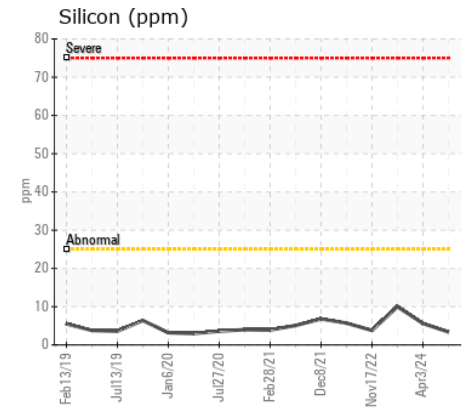
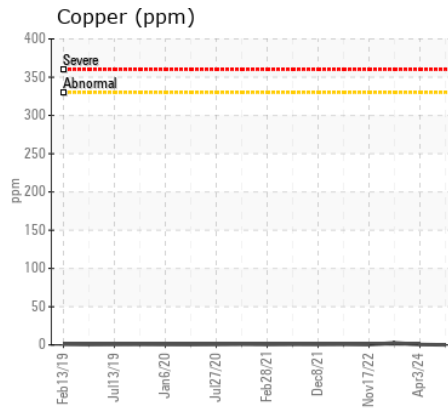
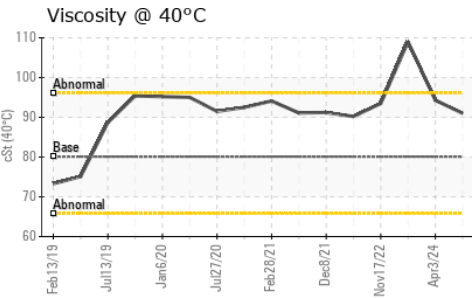
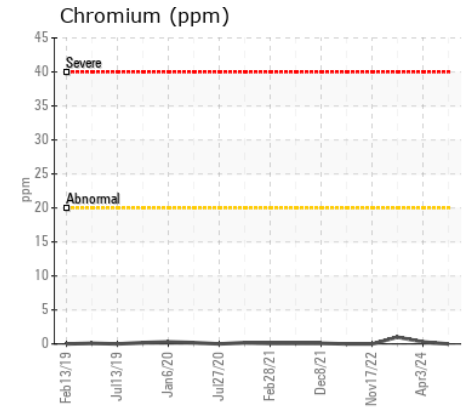
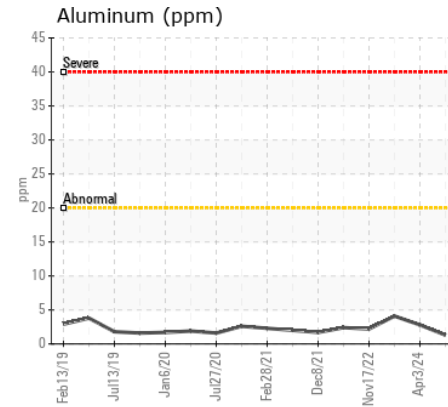
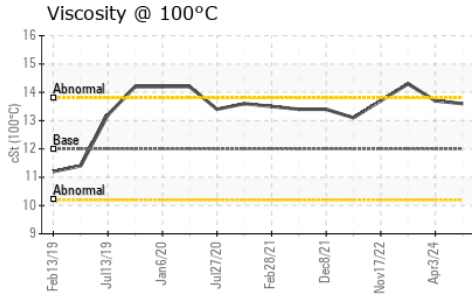
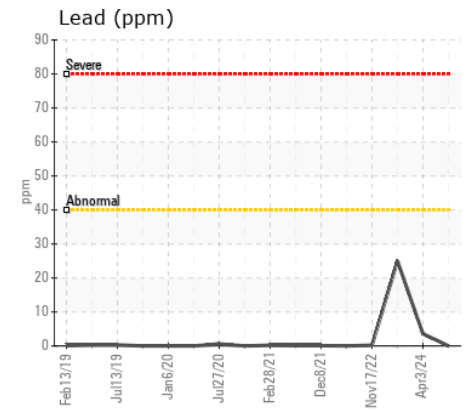
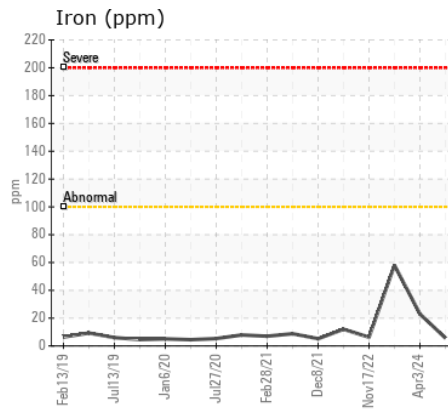
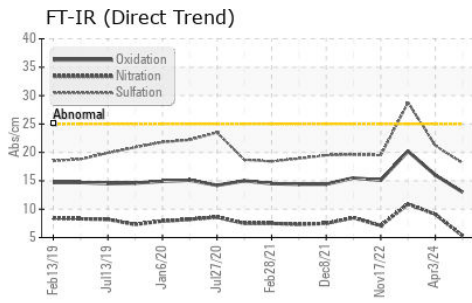
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	6	10
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	▲ 11	15
Fuel		WC Method	>5	<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>	▲ 0.037	0.0
Soot %	%	ASTM D7844*	>3	<b>0</b>	0.3	0.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.3</b>	9.1	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.1</b>	21.2	28.8
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>31</b>	● 94	33
Boron	ppm	ASTM D5185(m)	2	<b>1</b>	2	11
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	<b>53</b>	61	32
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>926</b>	853	266
Calcium	ppm	ASTM D5185(m)	1050	<b>1071</b>	1285	2293
Phosphorus	ppm	ASTM D5185(m)	995	<b>1001</b>	1007	1022
Zinc	ppm	ASTM D5185(m)	1180	<b>1173</b>	1196	1260
Sulfur	ppm	ASTM D5185(m)	2600	<b>2599</b>	2583	2937
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.0</b>	16.0	20.2
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	<b>91.0</b>	94.3	▲ 109
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>13.6</b>	13.7	▲ 14.3
Viscosity Index (VI)	Scale	ASTM D2270*	144	<b>151</b>	147	133



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083763  
**Lab Number** : 02628740  
**Unique Number** : 5761872  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**LES ENTREPRISES MICHAUVILLE INC.**  
 270 RUE BRUNET  
 MONT ST-HILAIRE, QC  
 CA J3H 0M6  
 Contact: Martin Trudel  
 mtrudel@michaudville.com

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.

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F: