



# OIL ANALYSIS REPORT

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

Area  
**MICHAUDVILLE**

Machine Id  
**1508**

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>PC0083533</b>	PC0071576	PC0075919
Sample Date		Client Info		<b>07 Jan 2024</b>	17 Oct 2023	07 Jun 2023
Machine Age	hrs	Client Info		<b>9810</b>	9315	8848
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>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>8</b>	6	10
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	1	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

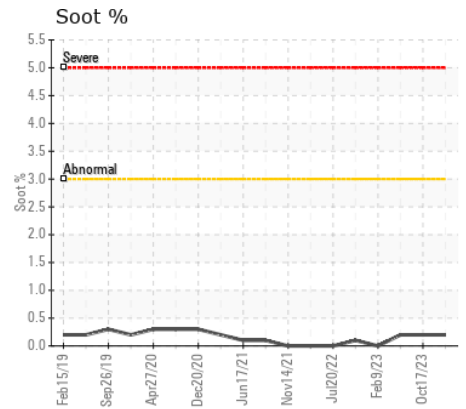
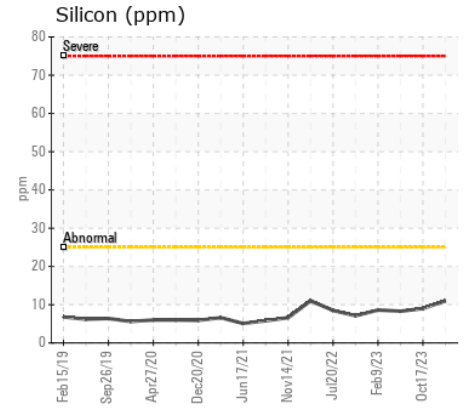
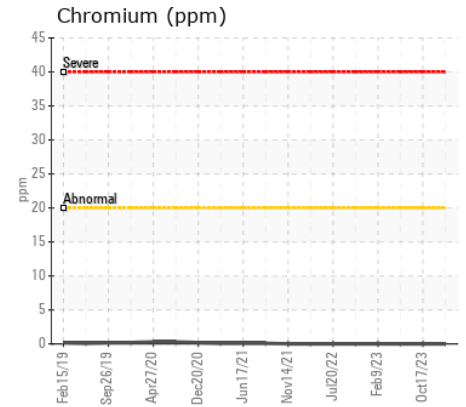
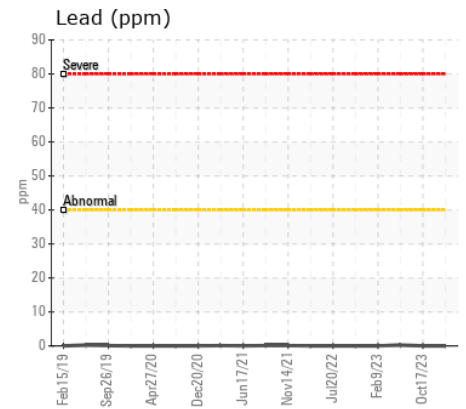
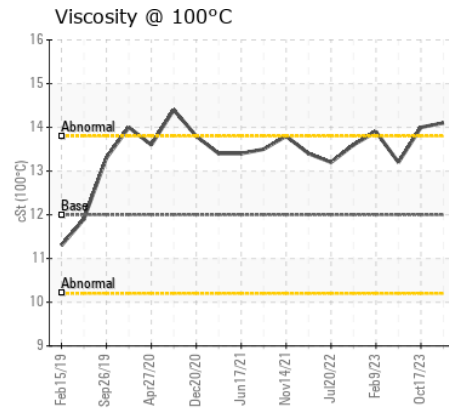
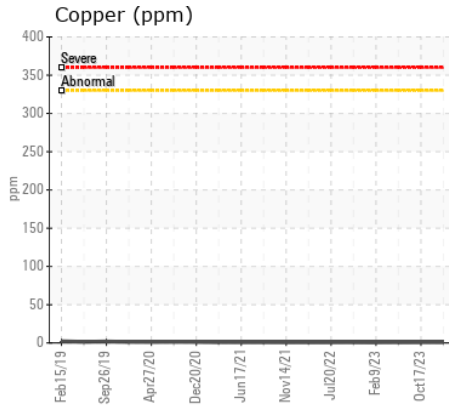
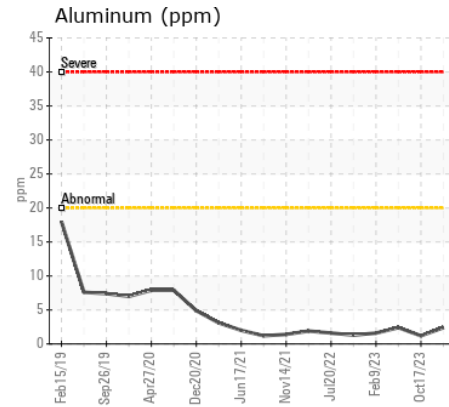
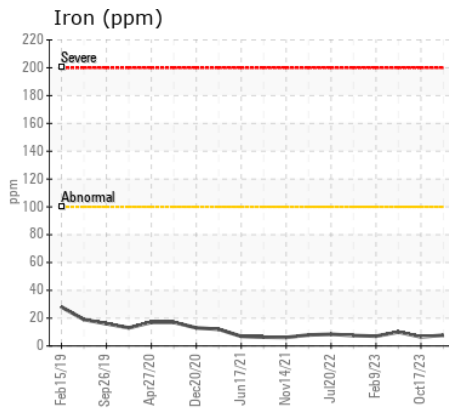
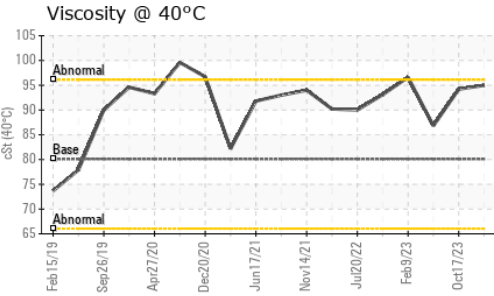
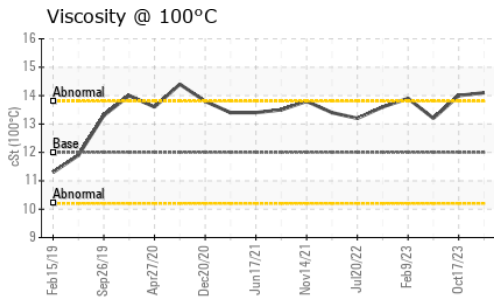
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>11</b>	9	8
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	1
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>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.6</b>	7.4	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.1</b>	20.2	21.7
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>2</b>	2	1
Boron	ppm	ASTM D5185(m)	2	<b>&lt;1</b>	2	5
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>59</b>	56	57
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>950</b>	921	903
Calcium	ppm	ASTM D5185(m)	1050	<b>1076</b>	1167	1360
Phosphorus	ppm	ASTM D5185(m)	995	<b>1001</b>	998	1111
Zinc	ppm	ASTM D5185(m)	1180	<b>1196</b>	1207	1227
Sulfur	ppm	ASTM D5185(m)	2600	<b>2711</b>	2539	2775
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.1</b>	15.5	17.3
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	<b>95.0</b>	94.2	86.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>14.1</b>	14.0	13.2
Viscosity Index (VI)	Scale	ASTM D2270*	144	<b>152</b>	152	152



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUVILLE INC.  
**Sample No.** : PC0083533 **Received** : 08 Jan 2024  
**Lab Number** : 02606959 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 5708045 **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.

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