

Area
MICHAUDVILLE
Machine Id
55101
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		PC0083536	PC0077611	PC0060705
Sample Date		Client Info		07 Jan 2024	24 Jul 2023	02 Nov 2022
Machine Age	hrs	Client Info		5266	4933	4398
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	5	6	6
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	4	5
Lead	ppm	ASTM D5185(m)	>40	0	0	3
Copper	ppm	ASTM D5185(m)	>330	2	3	4
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

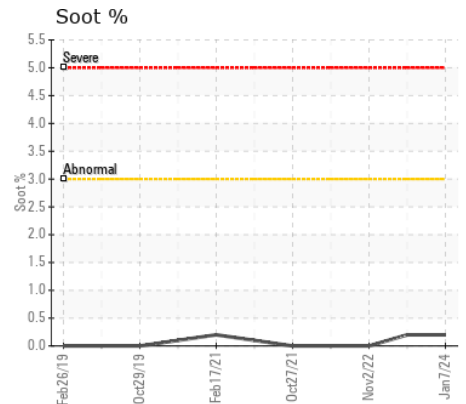
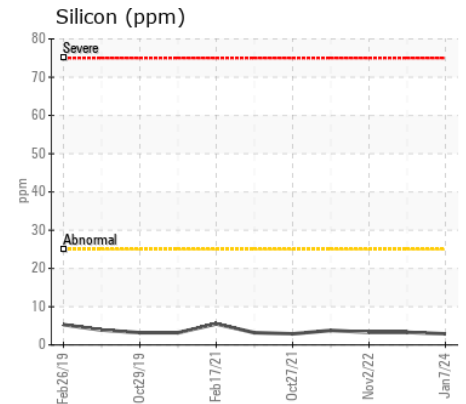
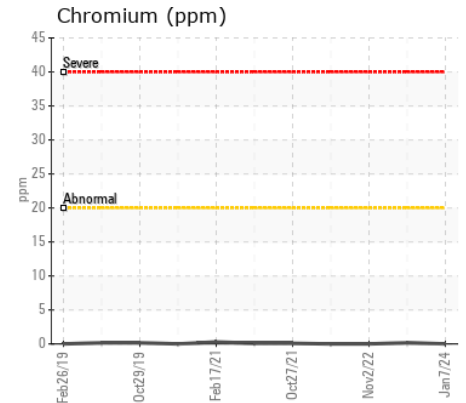
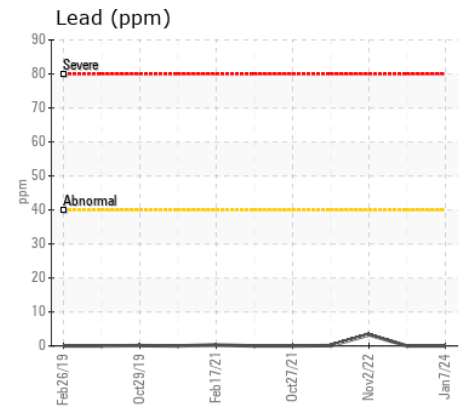
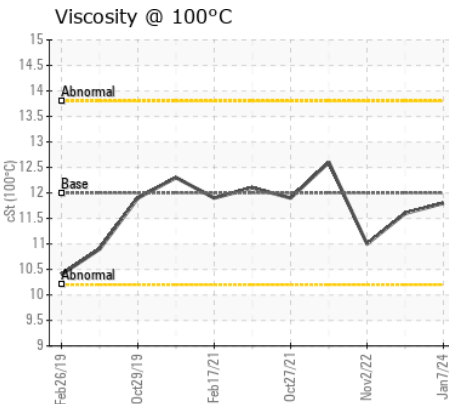
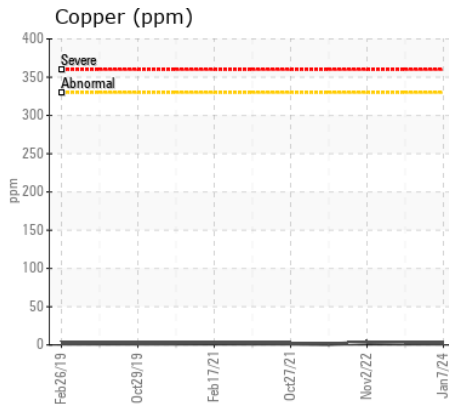
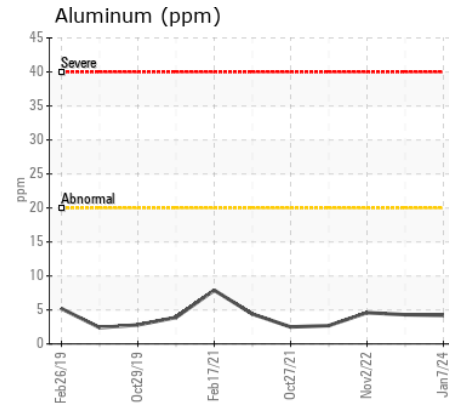
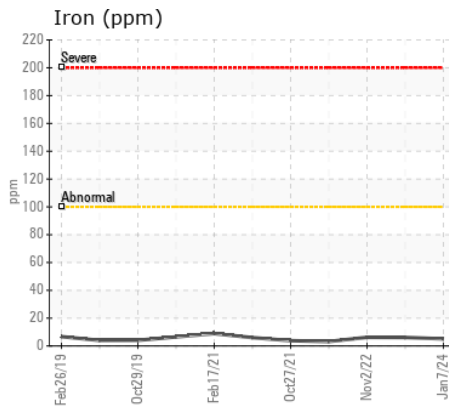
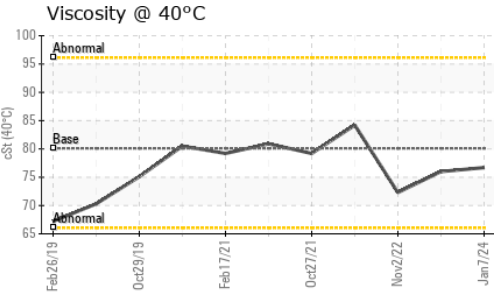
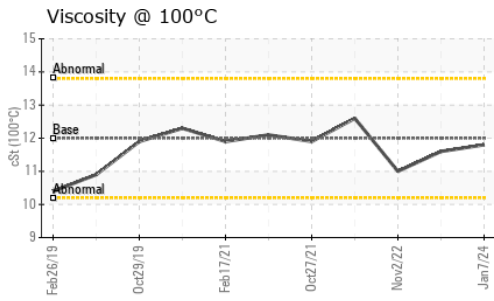
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	3	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	6.5	7.0	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	18.9	19.1
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	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	1
Boron	ppm	ASTM D5185(m)	2	1	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	56	57	52
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	920	961	850
Calcium	ppm	ASTM D5185(m)	1050	1108	1136	1297
Phosphorus	ppm	ASTM D5185(m)	995	1009	1066	1084
Zinc	ppm	ASTM D5185(m)	1180	1173	1170	1183
Sulfur	ppm	ASTM D5185(m)	2600	2792	2640	2698
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.9	14.6	13.9
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	76.7	76.0	72.3
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.8	11.6	11.0
Viscosity Index (VI)	Scale	ASTM D2270*	144	148	145	142



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUVILLE INC.
Sample No. : PC0083536 **Received** : 08 Jan 2024
Lab Number : 02606956 **Diagnosed** : 09 Jan 2024
Unique Number : 5708042 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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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