

Area
MICHAUDVILLE
Machine Id
1221
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		PC0085083	PC0088527	PC0077672
Sample Date		Client Info		26 Jun 2024	01 Apr 2024	19 Dec 2023
Machine Age	hrs	Client Info		11746	11251	10954
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	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	13	11	18
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	4
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

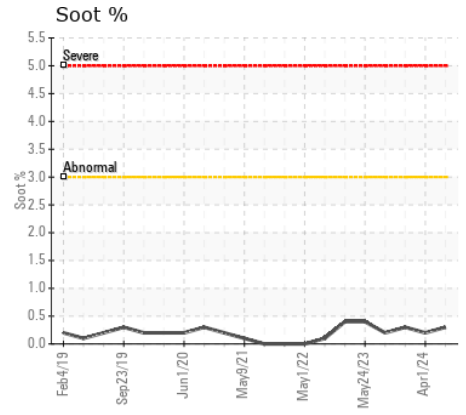
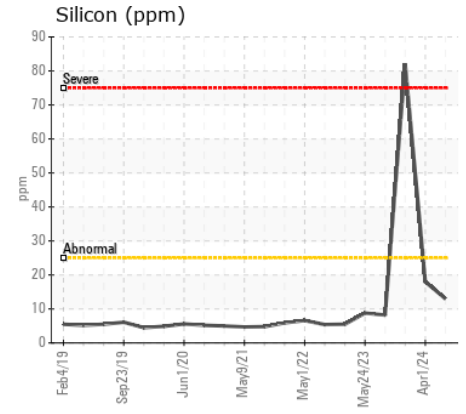
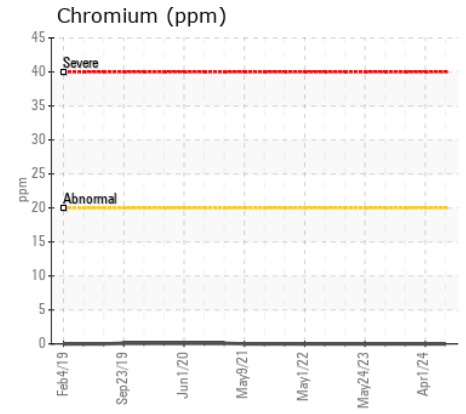
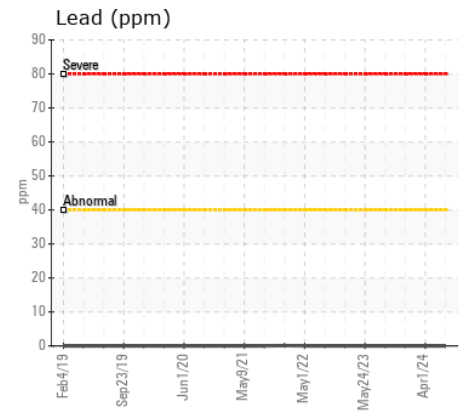
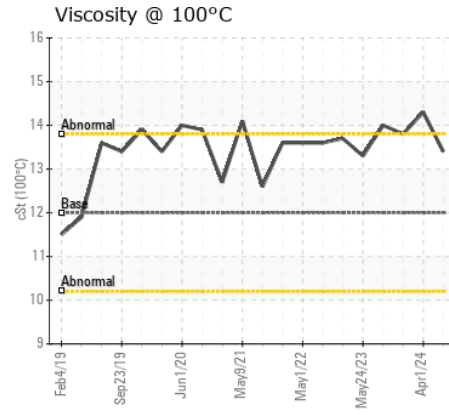
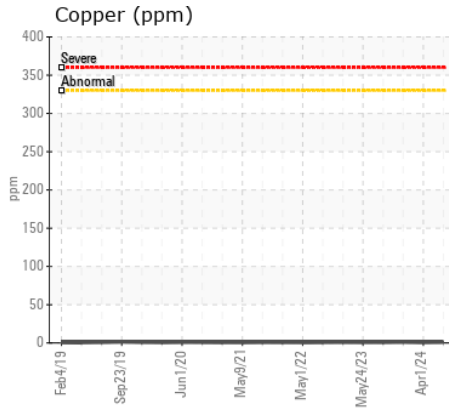
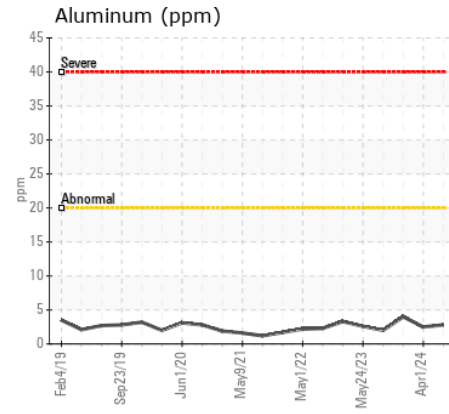
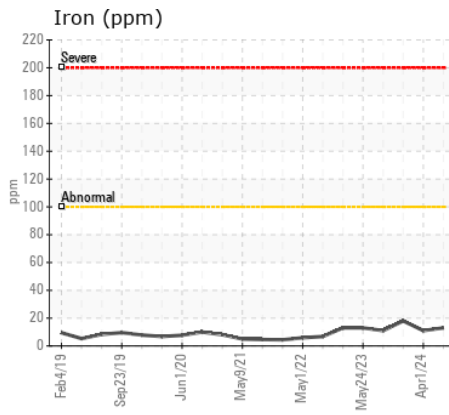
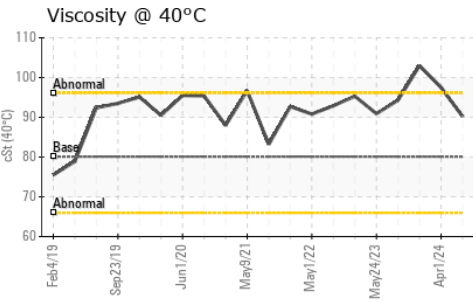
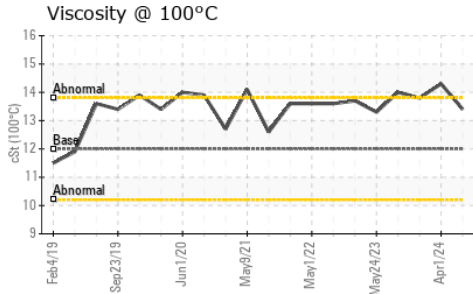
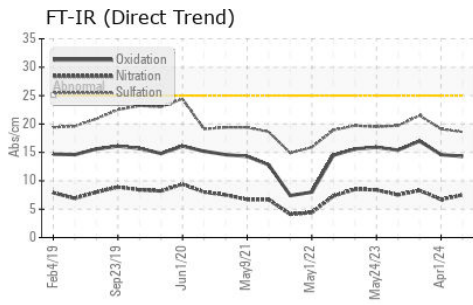
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	13	18	▲ 82
Potassium	ppm	ASTM D5185(m)	>20	2	3	10
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	0.3	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	7.5	6.7	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	19.1	21.5
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)		1	1	3
Boron	ppm	ASTM D5185(m)	2	3	14	113
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	53	50	11
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	920	823	62
Calcium	ppm	ASTM D5185(m)	1050	1091	1258	2179
Phosphorus	ppm	ASTM D5185(m)	995	991	976	956
Zinc	ppm	ASTM D5185(m)	1180	1214	1185	1133
Sulfur	ppm	ASTM D5185(m)	2600	2517	2589	2983
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	14.6	17.0
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	90.2	97.5	103
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	13.4	14.3	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	144	149	150	134



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085083
Lab Number : 02644318
Unique Number : 5801857
Test Package : MOB 1 (Additional Tests: KV40, VI)

LES ENTREPRISES MICHAUVILLE INC.
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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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