

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		PC0088527	PC0077672	PC0077394
Sample Date		Client Info		01 Apr 2024	19 Dec 2023	13 Sep 2023
Machine Age	hrs	Client Info		11251	10954	10510
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	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	11	18	11
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	2
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

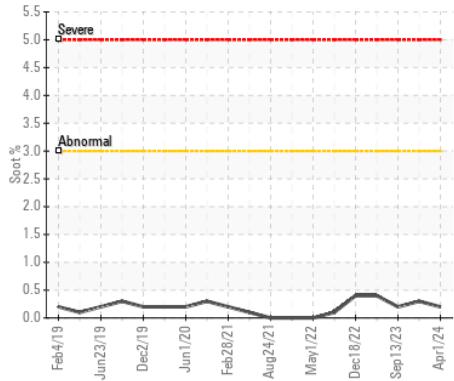
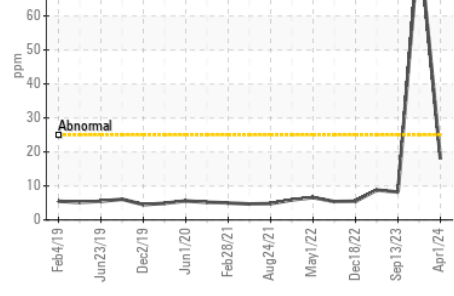
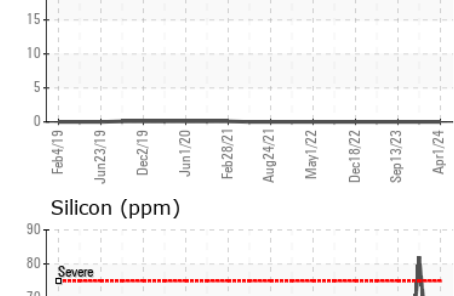
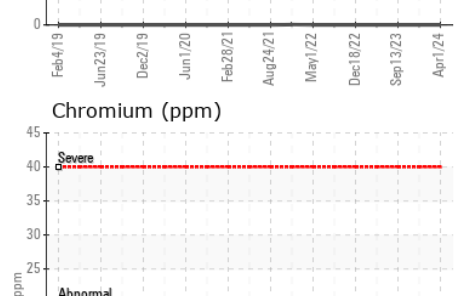
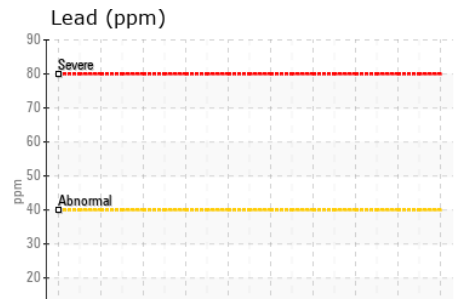
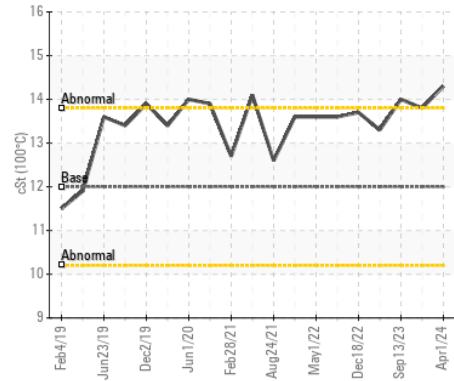
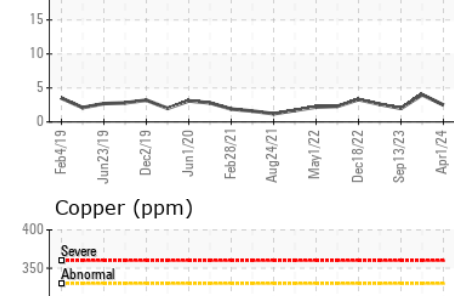
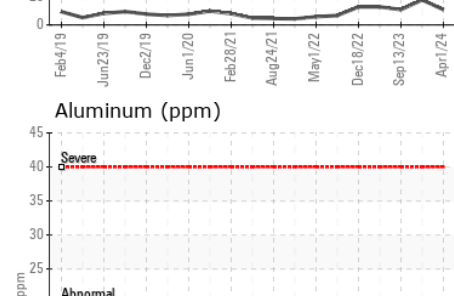
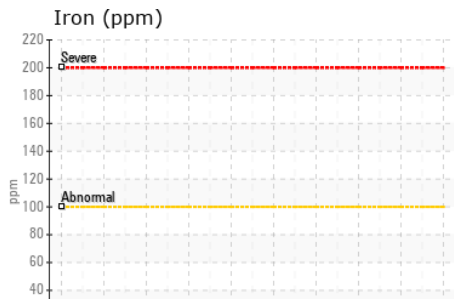
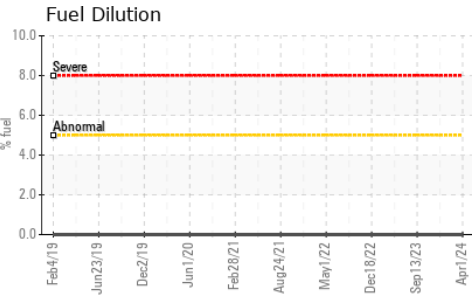
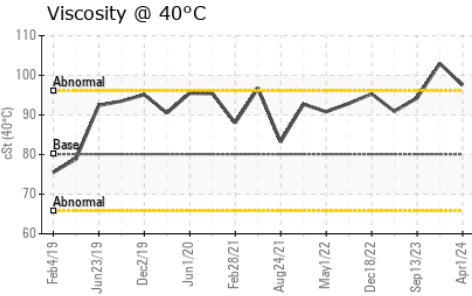
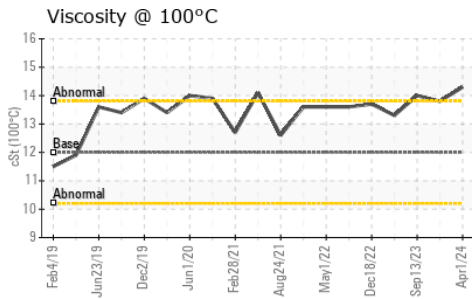
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	18	▲ 82	8
Potassium	ppm	ASTM D5185(m)	>20	3	10	3
Fuel	%	ASTM D7593*	>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	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	6.7	8.3	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	21.5	19.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 5W40 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		1	3	1
Boron	ppm	ASTM D5185(m)	2	14	113	1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	50	11	57
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	823	62	942
Calcium	ppm	ASTM D5185(m)	1050	1258	2179	1130
Phosphorus	ppm	ASTM D5185(m)	995	976	956	1081
Zinc	ppm	ASTM D5185(m)	1180	1185	1133	1192
Sulfur	ppm	ASTM D5185(m)	2600	2589	2983	2590
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	17.0	15.4
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	97.5	103	94.3
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	14.3	13.8	14.0
Viscosity Index (VI)	Scale	ASTM D2270*	144	150	134	151



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088527
Lab Number : 02625973
Unique Number : 5759105
Test Package : MOB 1 (Additional Tests: FUELDILUTION, 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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