

Area
MICHAUDVILLE
Machine Id
1599
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		PC0085260	PC0075963	PC0075938
Sample Date		Client Info		27 May 2024	26 Sep 2023	20 Jun 2023
Machine Age	hrs	Client Info		26245	25710	25254
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	15	13	12
Chromium	ppm	ASTM D5185(m)	>20	2	1	2
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	1
Lead	ppm	ASTM D5185(m)	>40	2	4	3
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	<1	1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

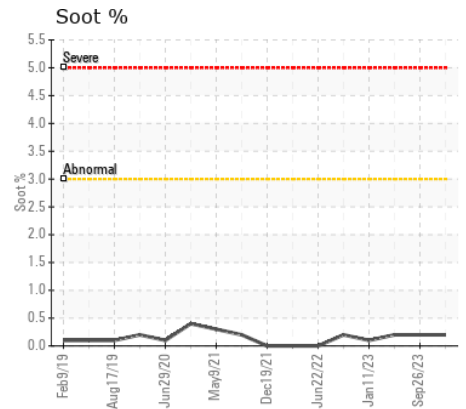
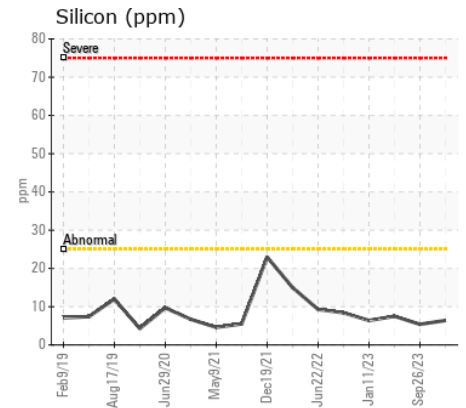
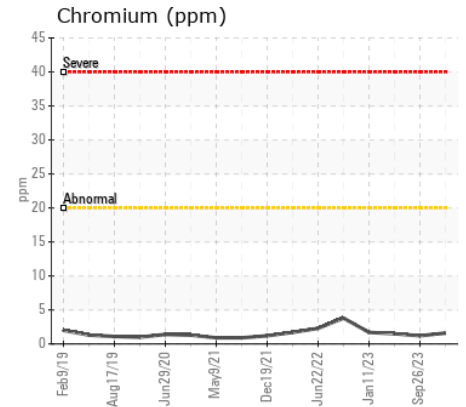
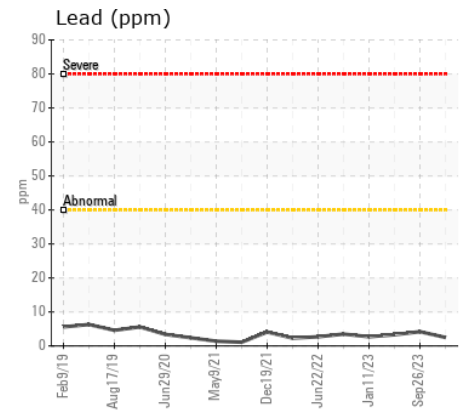
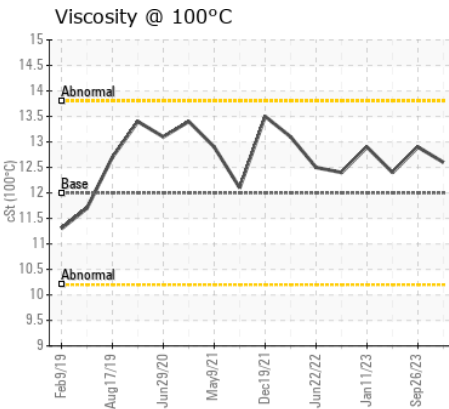
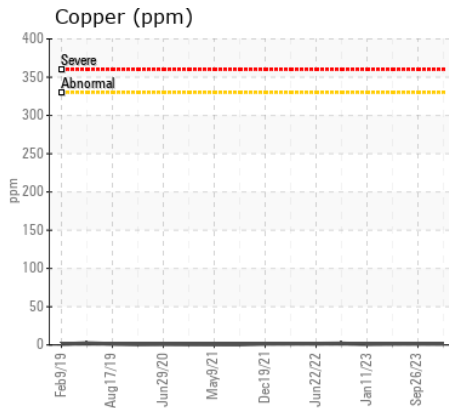
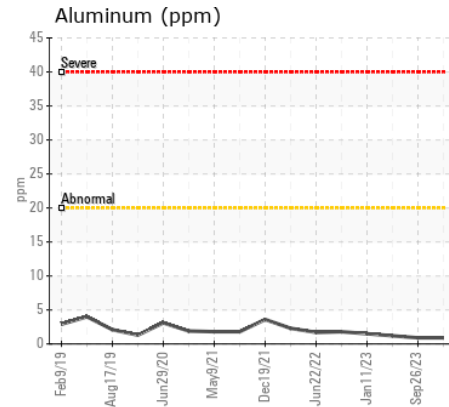
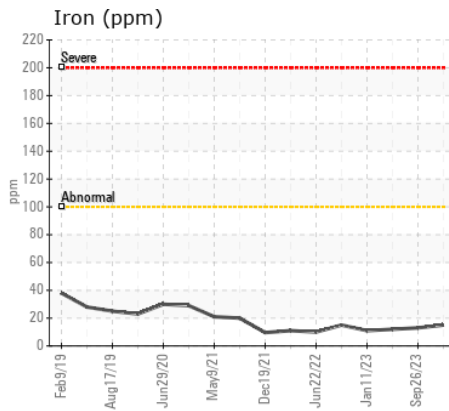
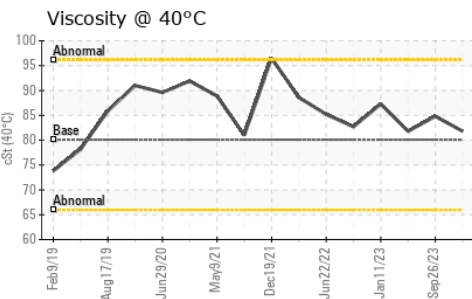
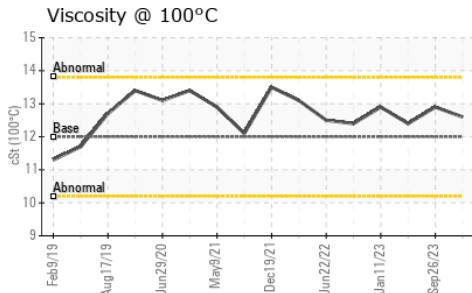
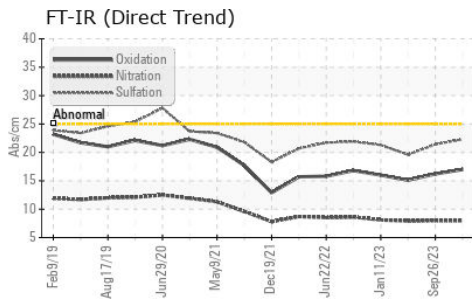
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	5	8
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
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	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.0	8.0	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	21.4	19.6
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)		3	4	4
Boron	ppm	ASTM D5185(m)	2	1	3	8
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	53	58	60
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	879	931	954
Calcium	ppm	ASTM D5185(m)	1050	1213	1145	1112
Phosphorus	ppm	ASTM D5185(m)	995	993	1001	1081
Zinc	ppm	ASTM D5185(m)	1180	1173	1203	1176
Sulfur	ppm	ASTM D5185(m)	2600	2551	2618	2589
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.0	16.2	15.1
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	81.8	84.8	81.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.6	12.9	12.4
Viscosity Index (VI)	Scale	ASTM D2270*	144	152	151	148



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085260
Lab Number : 02637822
Unique Number : 5786984
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 28 May 2024
Tested : 28 May 2024
Diagnosed : 28 May 2024 - Wes Davis

LES ENTREPRISES MICHAUVILLE INC.
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 MONT ST-HILAIRE, QC
 CA J3H 0M6
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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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