

Area
MICHAUDVILLE

Machine Id
1201

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		PC0085230	PC0072160	PC0071946
Sample Date		Client Info		21 Apr 2024	07 Jan 2024	17 Oct 2023
Machine Age	hrs	Client Info		13075	12590	12194
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	6	5	8
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
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

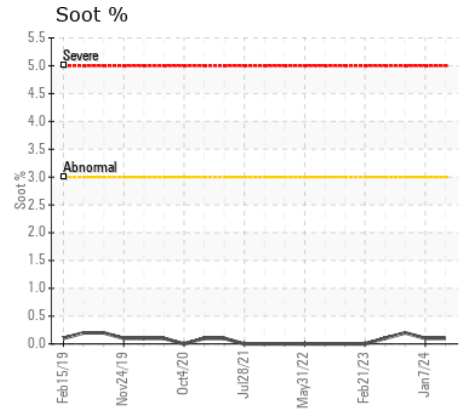
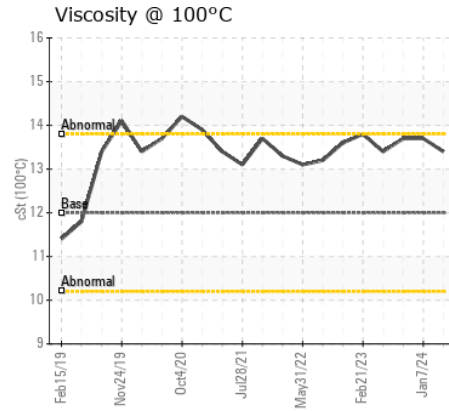
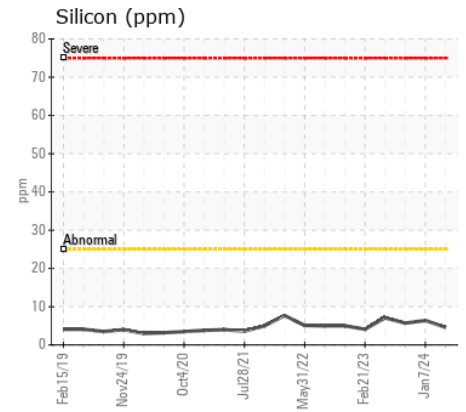
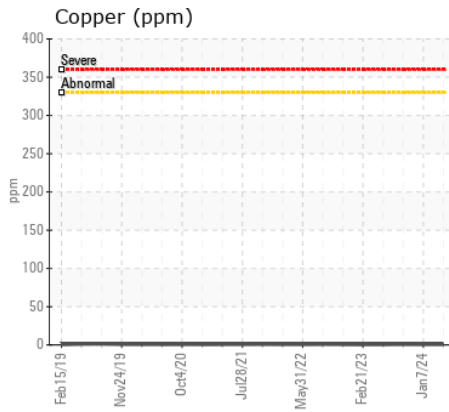
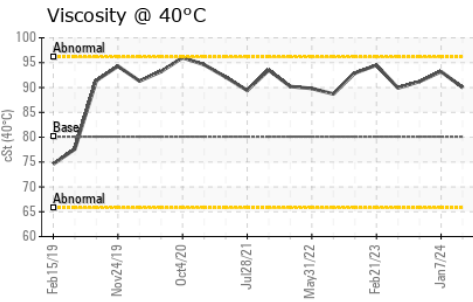
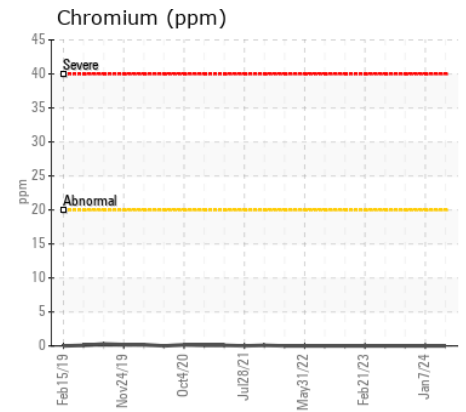
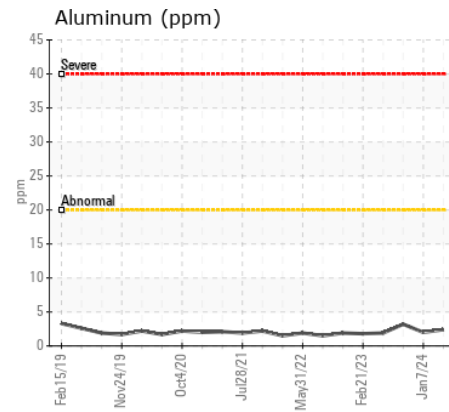
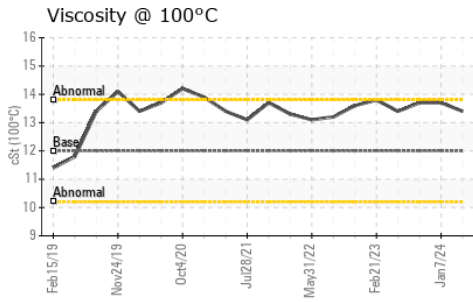
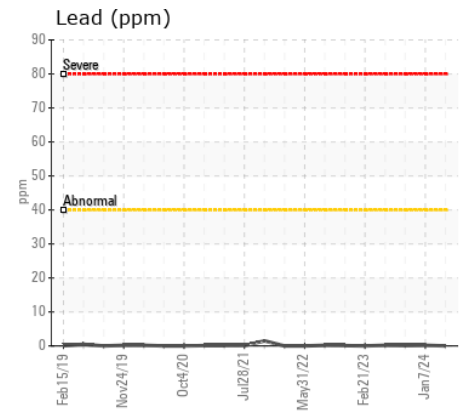
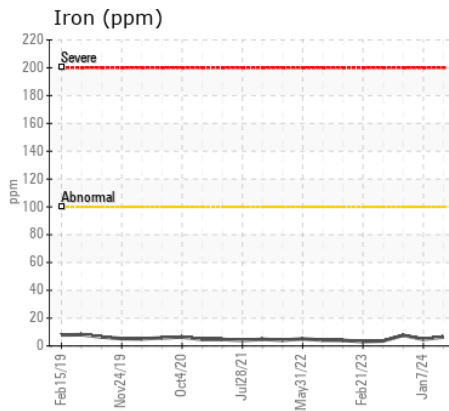
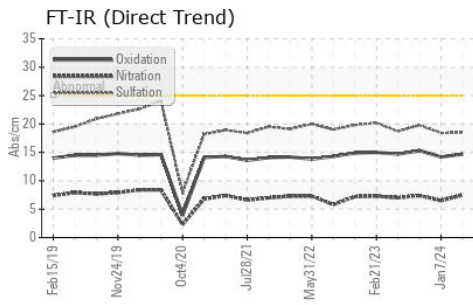
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	6	6
Potassium	ppm	ASTM D5185(m)	>20	2	2	3
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	0.1	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.5	6.5	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	18.4	19.8
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	2
Boron	ppm	ASTM D5185(m)	2	<1	<1	1
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	56	57	57
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	943	935	916
Calcium	ppm	ASTM D5185(m)	1050	1059	1068	1131
Phosphorus	ppm	ASTM D5185(m)	995	982	997	1001
Zinc	ppm	ASTM D5185(m)	1180	1149	1175	1180
Sulfur	ppm	ASTM D5185(m)	2600	2532	2766	2614
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	14.2	15.3
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	90.0	93.2	91.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	13.4	13.7	13.7
Viscosity Index (VI)	Scale	ASTM D2270*	144	149	149	152



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085230
Lab Number : 02630505
Unique Number : 5763637
Test Package : MOB 1 (Additional Tests: KV40, VI)
Received : 22 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 22 Apr 2024 - Kevin Marson

LES ENTREPRISES MICHAUDVILLE 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.