

Machine Id
GUASCOR MCMaster NG 1
Component
Natural Gas Engine
Fluid
PETRO CANADA SENTRON LD 5000 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078879	PC0078887	PC0073689
Sample Date		Client Info		05 Feb 2024	12 Dec 2023	24 Oct 2023
Machine Age	hrs	Client Info		27175	25881	24715
Oil Age	hrs	Client Info		1294	1166	1261
Filter Age	hrs	Client Info		1294	1166	1261
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	3	3	4
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)		4	4	4
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	1	2	2
Lead	ppm	ASTM D5185(m)	>30	11	9	21
Copper	ppm	ASTM D5185(m)	>35	2	2	2
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

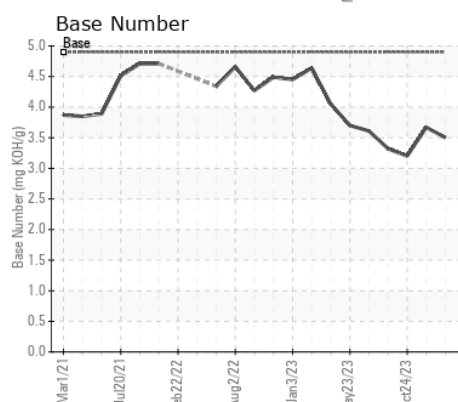
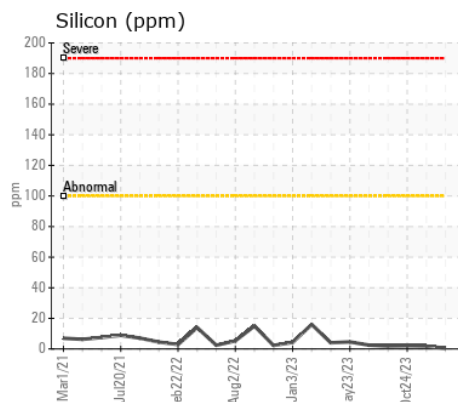
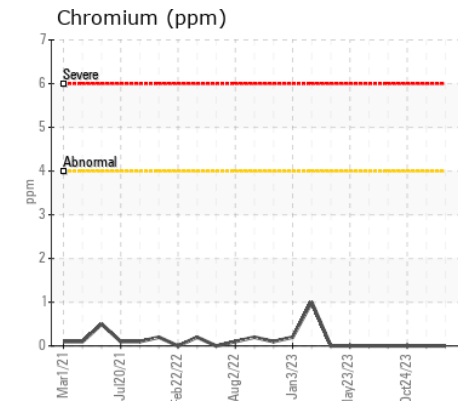
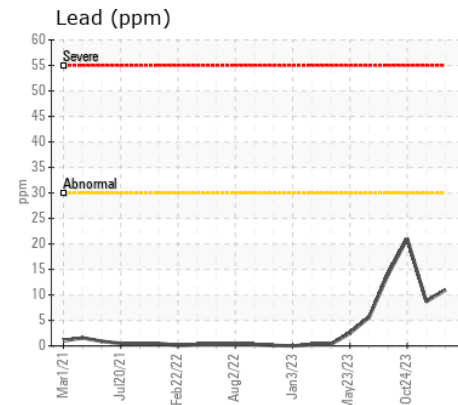
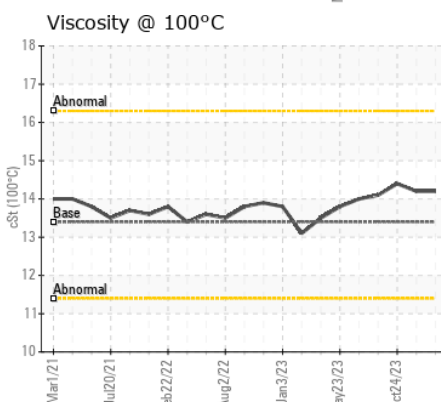
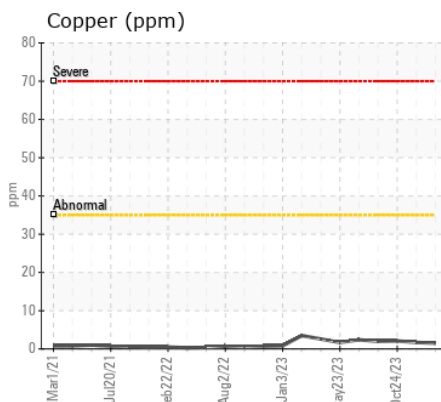
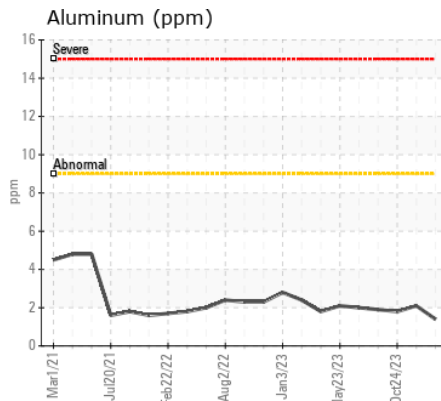
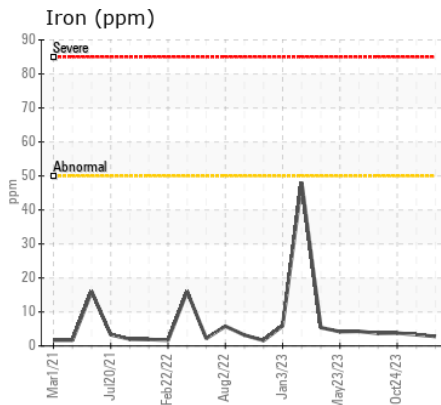
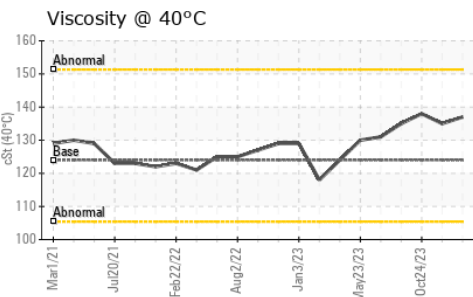
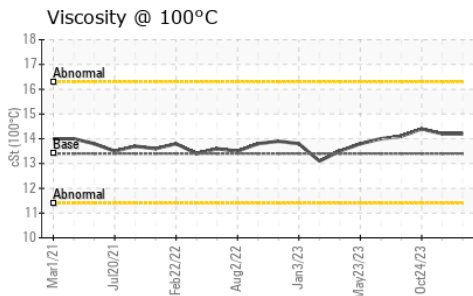
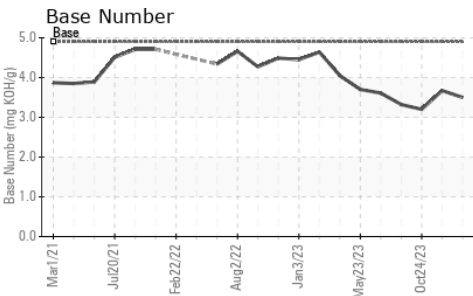
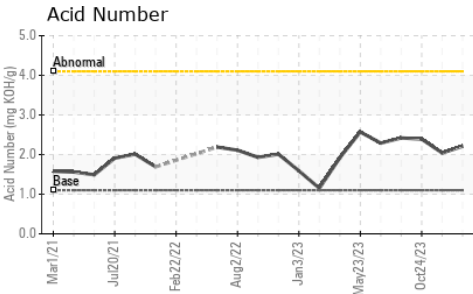
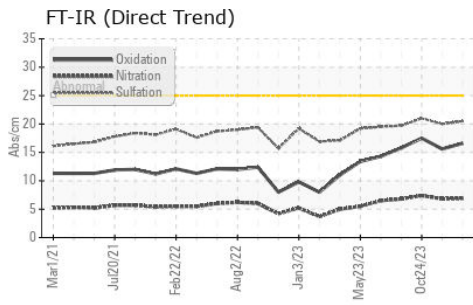
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<1	2	2
Potassium	ppm	ASTM D5185(m)	>20	1	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.9	6.8	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	20.0	21.0
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		3	3	3
Boron	ppm	ASTM D5185(m)	2	14	17	16
Barium	ppm	ASTM D5185(m)	3	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	5	7	7
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	4	20	24	24
Calcium	ppm	ASTM D5185(m)	1727	1988	1917	1991
Phosphorus	ppm	ASTM D5185(m)	272	320	321	328
Zinc	ppm	ASTM D5185(m)	333	370	365	379
Sulfur	ppm	ASTM D5185(m)	3415	2352	2393	2282
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.6	15.6	17.5
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	2.21	2.04	2.39
Base Number (BN)	mg KOH/g	ASTM D2896*	4.9	3.50	3.67	3.20
i-pH	Scale 0-14	ASTM D7946*	<4.5	5.26	4.86	▲ 4.23
Visc @ 40°C	cSt	ASTM D7279(m)	124.0	137	135	138
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	14.2	14.2	14.4
Viscosity Index (VI)	Scale	ASTM D2270*	104	101	102	102



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078879
Lab Number : 02626589
Unique Number : 5759721
Test Package : MOB 2 (Additional Tests: i-pH, KV40, TAN Auto, TAN Man, VI)

Received : 04 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - Wes Davis

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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