



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
830018
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088659	CU0021572	PC0075415
Sample Date		Client Info		14 May 2024	06 Dec 2023	01 Jun 2023
Machine Age	kms	Client Info		195045	0	152002
Oil Age	kms	Client Info		195045	0	0
Filter Age	kms	Client Info		195045	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE

WEAR

Usure de piston.

Iron	ppm	ASTM D5185(m)	>50	32	29	▲ 54
Chromium	ppm	ASTM D5185(m)	>4	2	2	▲ 5
Nickel	ppm	ASTM D5185(m)	>2	<1	1	2
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	▲ 29	▲ 36	▲ 50
Lead	ppm	ASTM D5185(m)	>30	2	2	8
Copper	ppm	ASTM D5185(m)	>35	1	1	2
Tin	ppm	ASTM D5185(m)	>4	<1	1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	VLITE	NONE	NONE

CONTAMINATION

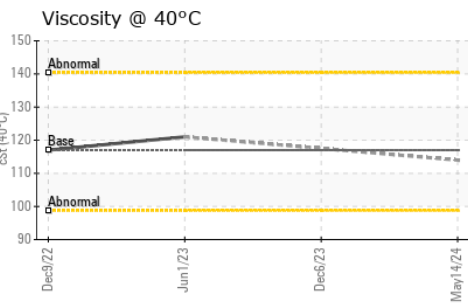
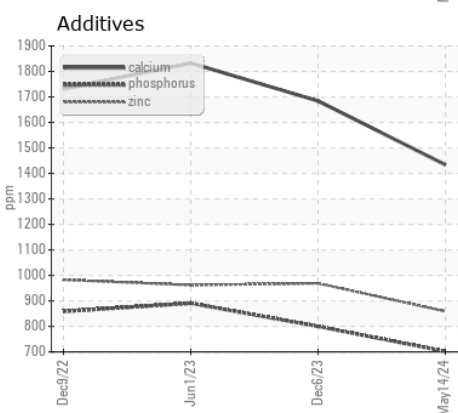
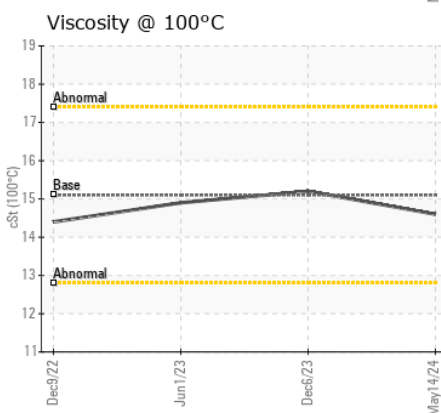
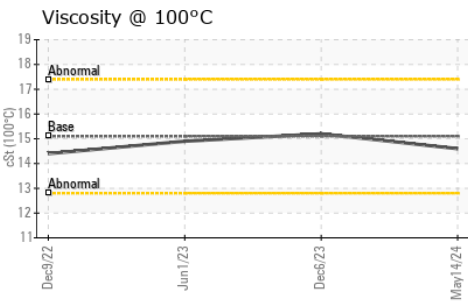
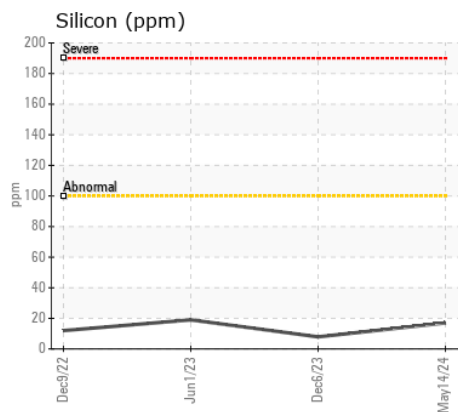
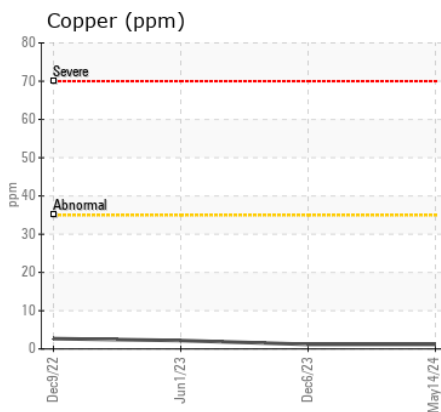
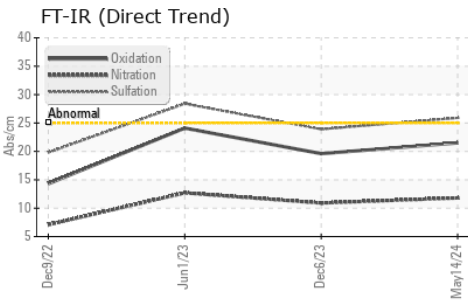
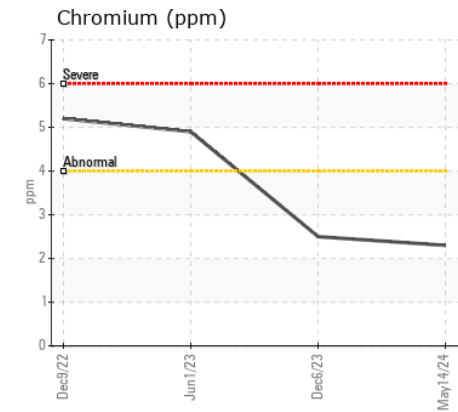
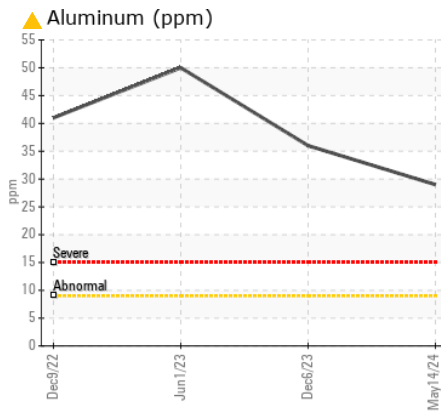
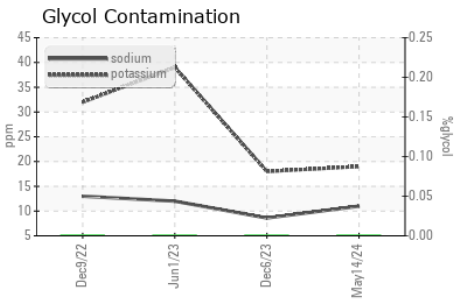
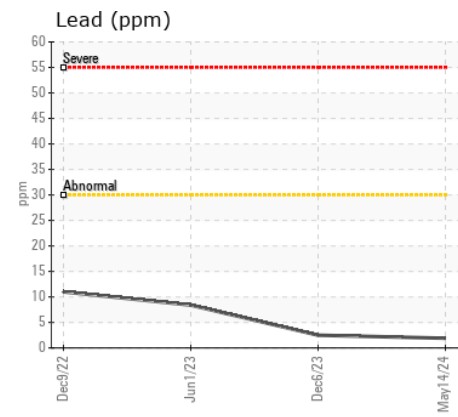
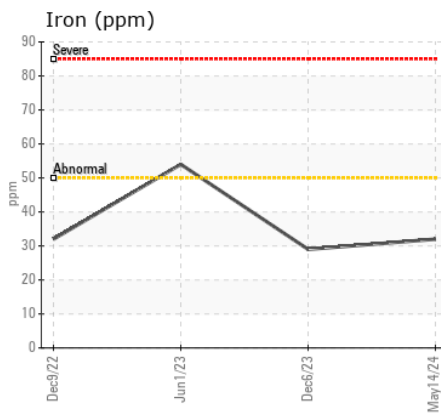
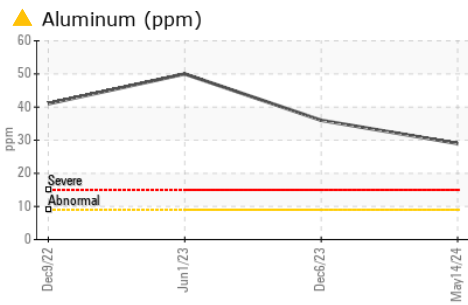
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>+100	17	8	19
Potassium	ppm	ASTM D5185(m)	>20	19	18	39
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.8	10.9	12.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.9	23.9	28.4
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		11	9	12
Boron	ppm	ASTM D5185(m)	50	5	9	6
Barium	ppm	ASTM D5185(m)	5	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	54	57	61
Manganese	ppm	ASTM D5185(m)	0	<1	<1	2
Magnesium	ppm	ASTM D5185(m)	560	690	618	648
Calcium	ppm	ASTM D5185(m)	1510	1434	1684	1833
Phosphorus	ppm	ASTM D5185(m)	780	702	800	891
Zinc	ppm	ASTM D5185(m)	870	859	969	962
Sulfur	ppm	ASTM D5185(m)	2040	1907	1994	2047
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.5	19.6	24.1
Visc @ 40°C	cSt	ASTM D7279(m)	117.0	114	---	121
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.6	15.2	14.9
Viscosity Index (VI)	Scale	ASTM D2270*	134	130	---	126



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088659
Lab Number : 02636007
Unique Number : 5785169
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI, Visual)

GFL Environmental - 742 - Quebec City Solid Waste
 5160 Jean-Talon Pierre-Bertrand Bou
 Quebec City, QC
 CA G2J 1B7
 Contact: Jean Audet
 Jaudet@matrec.ca
 T: (418)624-0080
 F:

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.