



Machine Id
930019
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Nous vous recommandons de vérifier la source de l'infiltration d'eau. Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

WEAR

Usure de segment. Usure de la soupape d'échappement. Usure de piston. Usure de palier. Une usure du palier de glissement est indiquée.

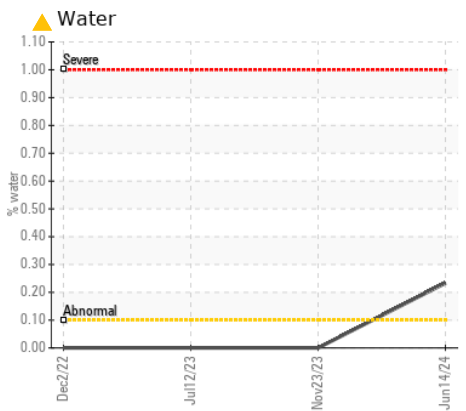
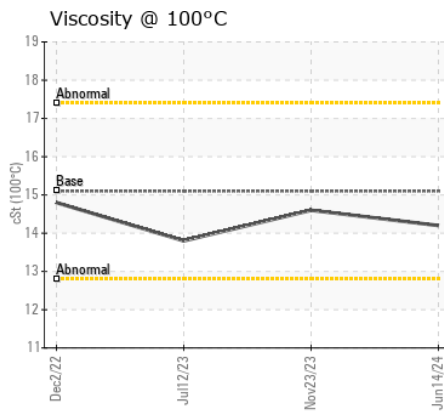
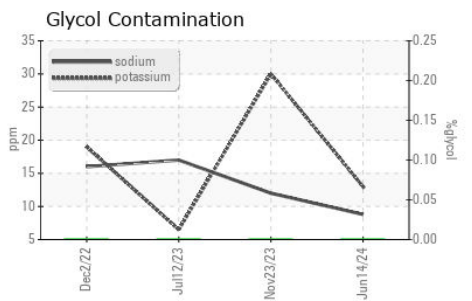
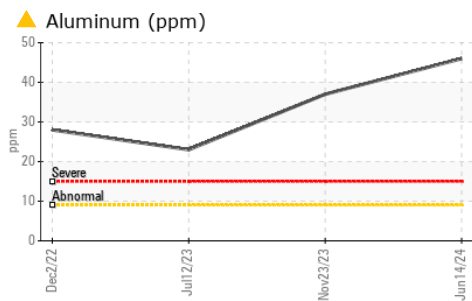
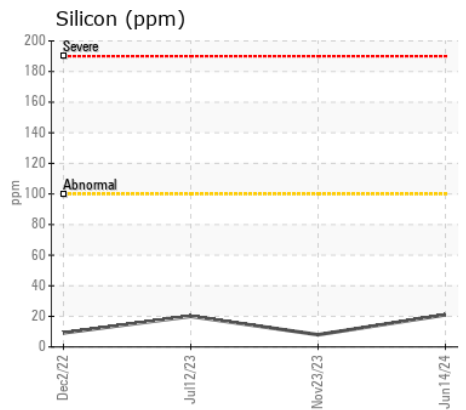
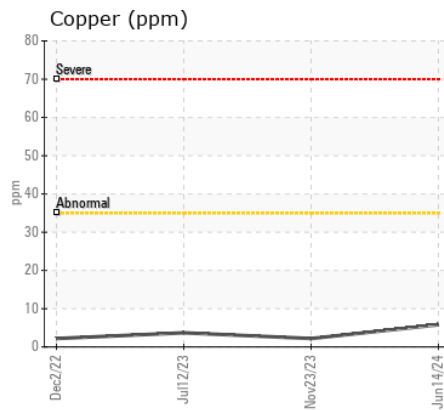
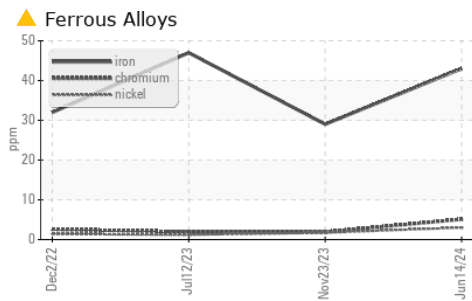
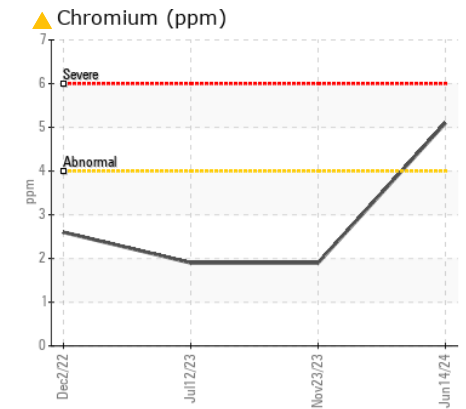
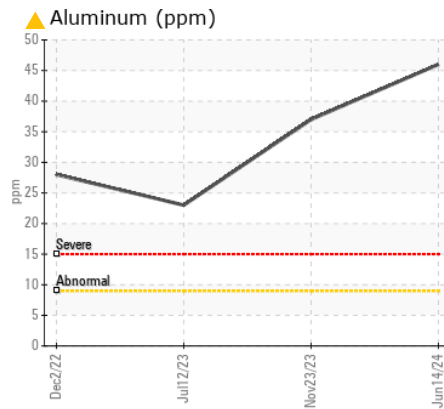
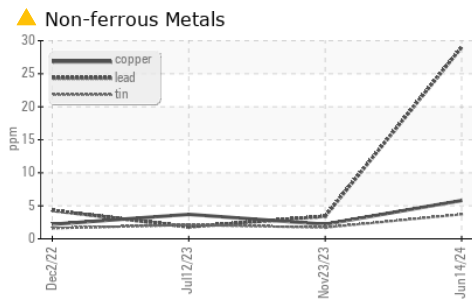
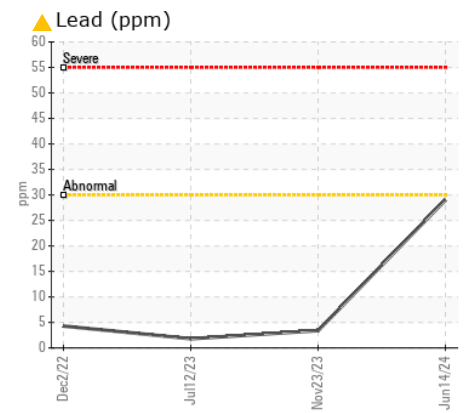
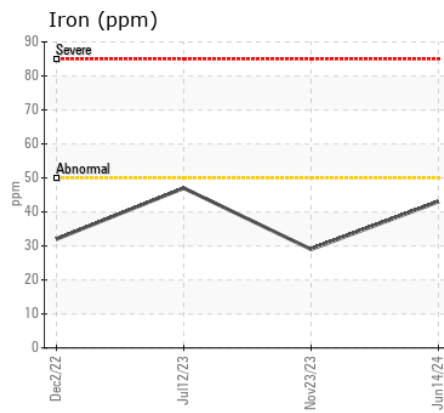
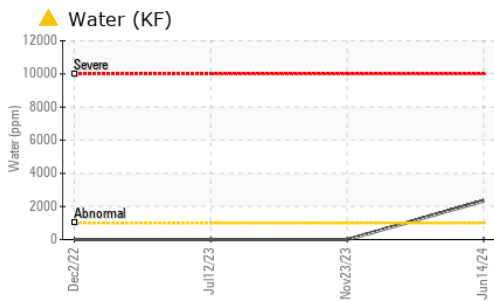
CONTAMINATION

Concentration modérée d'eau dans l'huile. Le test de glycol est négatif.

FLUID CONDITION

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088539	CU0021575	PC0077575
Sample Date		Client Info		14 Jun 2024	23 Nov 2023	12 Jul 2023
Machine Age	kms	Client Info		122336	100845	0
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>50	43	29	47
Chromium	ppm	ASTM D5185(m)	>4	▲ 5	2	2
Nickel	ppm	ASTM D5185(m)	>2	▲ 3	2	1
Titanium	ppm	ASTM D5185(m)		<1	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	▲ 46	▲ 37	▲ 23
Lead	ppm	ASTM D5185(m)	>30	▲ 29	3	2
Copper	ppm	ASTM D5185(m)	>35	6	2	4
Tin	ppm	ASTM D5185(m)	>4	▲ 4	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	VLITE
Yellow Metal	scalar	Visual*	NONE	VLITE	---	NONE
Silicon	ppm	ASTM D5185(m)	>+100	21	8	20
Potassium	ppm	ASTM D5185(m)	>20	13	30	6
Water	%	ASTM D6304*	>0.1	▲ 0.233	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 2334	---	---
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	14.3	11.5	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	30.8	27.2	27.2
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	NONE	---	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---	NONE
Appearance	scalar	Visual*	NORML	NORML	---	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	▲ .2%	NEG	NEG
Sodium	ppm	ASTM D5185(m)		9	12	17
Boron	ppm	ASTM D5185(m)	50	4	4	5
Barium	ppm	ASTM D5185(m)	5	<1	<1	3
Molybdenum	ppm	ASTM D5185(m)	50	70	57	58
Manganese	ppm	ASTM D5185(m)	0	2	2	6
Magnesium	ppm	ASTM D5185(m)	560	949	620	750
Calcium	ppm	ASTM D5185(m)	1510	1674	1623	1367
Phosphorus	ppm	ASTM D5185(m)	780	878	729	789
Zinc	ppm	ASTM D5185(m)	870	1069	926	913
Sulfur	ppm	ASTM D5185(m)	2040	2243	1970	2101
Oxidation	Abs/.1mm	ASTM D7414*	>25	28.2	22.4	23.3
Visc @ 40°C	cSt	ASTM D7279(m)	117.0	117	---	107
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.2	14.6	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	134	121	---	128



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088539
Lab Number : 02642555
Unique Number : 5800094
Test Package : MOB 1 (Additional Tests: Glycol, KF, 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.