



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Machine Id
801228
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

RECOMMENDATION

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088244	PC0067343	PC0067349
Sample Date		Client Info		29 Apr 2024	24 May 2023	27 Apr 2023
Machine Age	kms	Client Info		334427	16837	16756
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Les taux d'usure de tous les composants sont normaux.

Iron	ppm	ASTM D5185(m)	>75	32	13	43
Chromium	ppm	ASTM D5185(m)	>5	1	<1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	4	2	5
Lead	ppm	ASTM D5185(m)	>25	0	<1	1
Copper	ppm	ASTM D5185(m)	>100	2	1	3
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

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

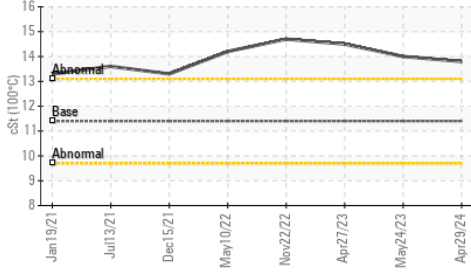
Silicon	ppm	ASTM D5185(m)	>25	5	5	10
Potassium	ppm	ASTM D5185(m)	>20	10	3	31
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	0.0
Soot %	%	ASTM D7844*	>6	0.8	0.2	0.9
Nitration	Abs/cm	ASTM D7624*	>20	10.4	7.2	11.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.5	19.3	23.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

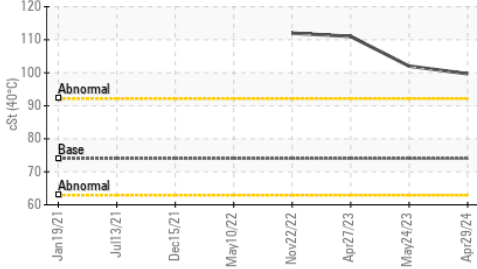
La viscosité de l'échantillon se situe dans la portée de l'SAE 15W40; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		12	9	23
Boron	ppm	ASTM D5185(m)	1	4	4	4
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	1	65	59	69
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	1007	955	1078
Calcium	ppm	ASTM D5185(m)	2942	1105	1159	1252
Phosphorus	ppm	ASTM D5185(m)	1102	1032	1090	1180
Zinc	ppm	ASTM D5185(m)	1351	1235	1212	1355
Sulfur	ppm	ASTM D5185(m)	3903	2450	2634	2584
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.2	14.8	19.8
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	▲ 99.7	102	111
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	▲ 13.8	14.0	14.5
Viscosity Index (VI)	Scale	ASTM D2270*	146	139	139	133

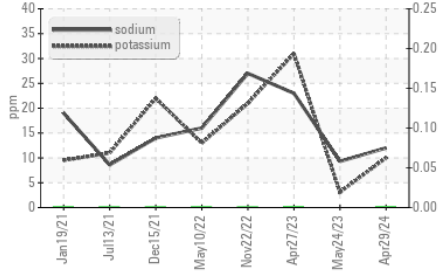
▲ Viscosity @ 100°C



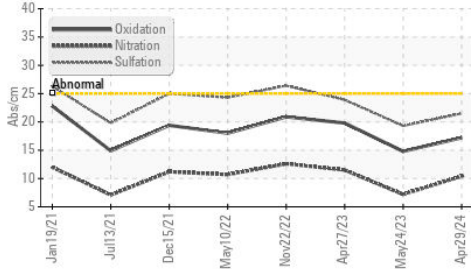
▲ Viscosity @ 40°C



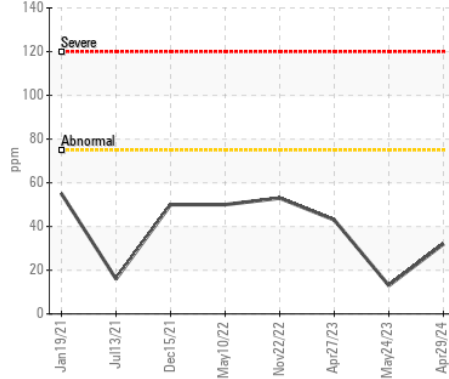
Glycol Contamination



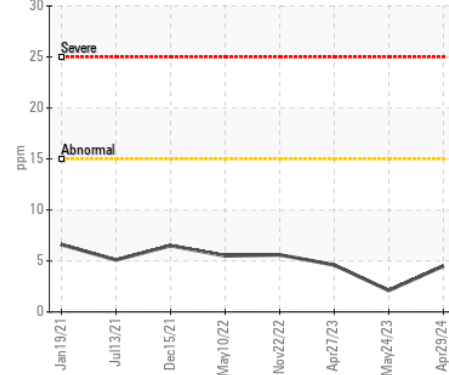
FT-IR (Direct Trend)



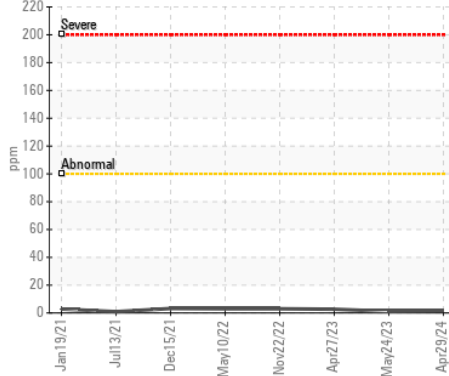
Iron (ppm)



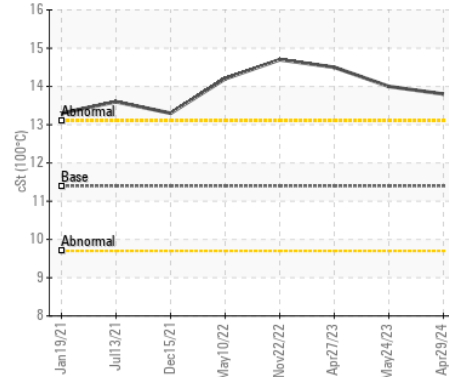
Aluminum (ppm)



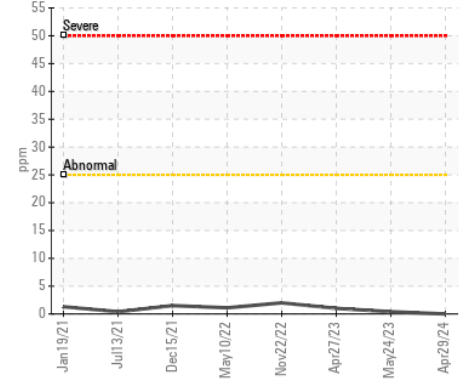
Copper (ppm)



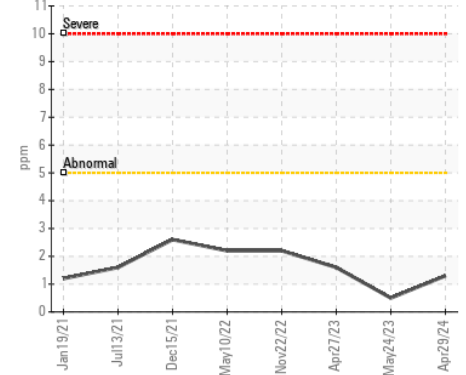
▲ Viscosity @ 100°C



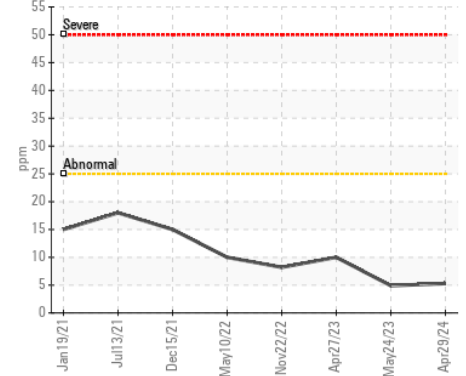
Lead (ppm)



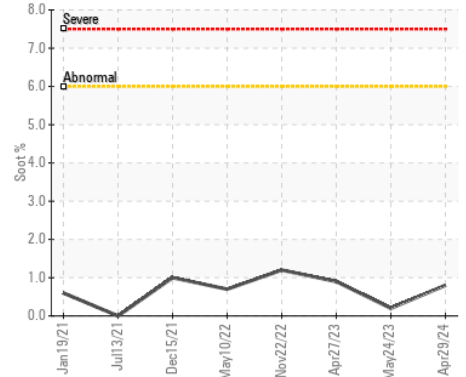
Chromium (ppm)



Silicon (ppm)



Soot %



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088244
Lab Number : 02632519
Unique Number : 5773672
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI)

GFL Environmental - 737 - Quebec City Hauling
 6205 Boul. Wilfrid Hamel,
 Quebec City, QC
 CA G2E 5G8
 Contact: Dave Beaulieu
 davebeaulieu@matrec.ca

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.

T:
F: