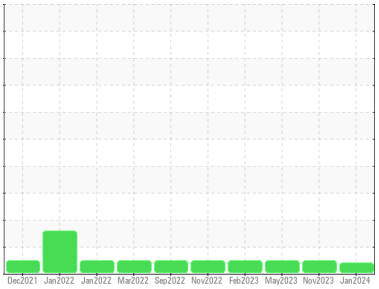
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
711029
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Aucune mesure corrective n`est recommandée pour l`instant. Échantillonner de nouveau l`équipement au prochain intervalle de vidange afin d`en surveiller la condition.

Wear

Les taux de métaux sont typiques pour la période de rodage d`un nouveau composant.

Contamination

La teneur en carburant est négligeable. Il n`y a aucun indice de contamination dans l`huile.

Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 30; nous vous conseillons de vérifier. L`état de l`huile est acceptable pour la durée de service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0107534**	GFL0096472	GFL0079413
Sample Date		Client Info		**09 Jan 2024**	03 Nov 2023	02 May 2023
Machine Age	kms	Client Info		**89657**	51404	66963
Oil Age	kms	Client Info		**0**	600	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	**8**	9	9
Chromium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	**2**	2	2
Lead	ppm	ASTM D5185(m)	>40	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>330	**1**	2	3
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**<1**	1	2
Barium	ppm	ASTM D5185(m)	0	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	**59**	61	61
Manganese	ppm	ASTM D5185(m)	0	**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	**980**	1000	999
Calcium	ppm	ASTM D5185(m)	1070	**1064**	1092	1122
Phosphorus	ppm	ASTM D5185(m)	1150	**961**	944	1070
Zinc	ppm	ASTM D5185(m)	1270	**1186**	1199	1207
Sulfur	ppm	ASTM D5185(m)	2060	**2492**	2192	2427
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**3**	6	3
Sodium	ppm	ASTM D5185(m)		**3**	6	4
Potassium	ppm	ASTM D5185(m)	>20	**2**	3	2
Fuel	%	ASTM D7593*	>3.0	**0.5**	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	**0.1**	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	**7.9**	8.3	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.7**	20.3	20.0

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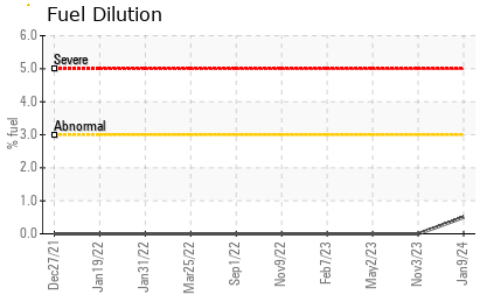
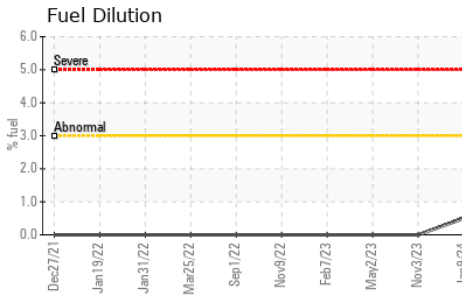


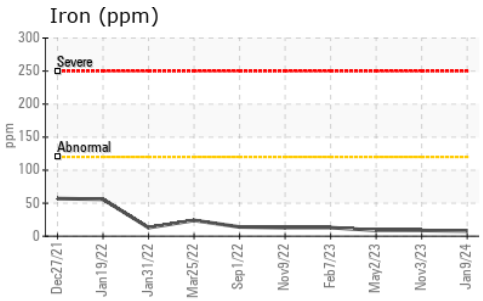


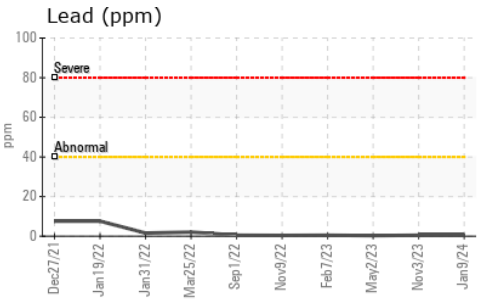
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.1**	16.9	16.2

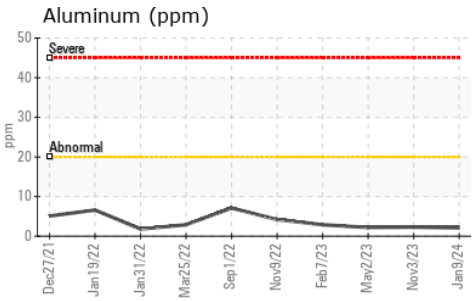
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

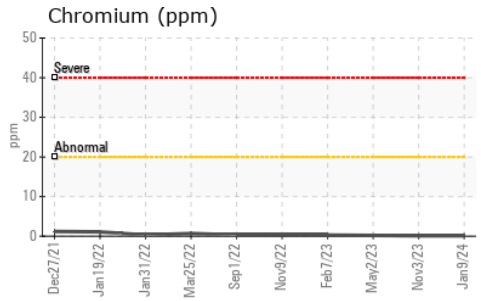
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ **11.2**	11.3	11.2

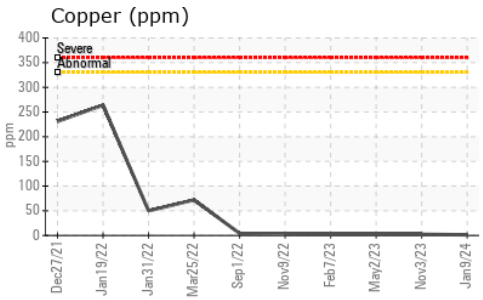
GRAPHS

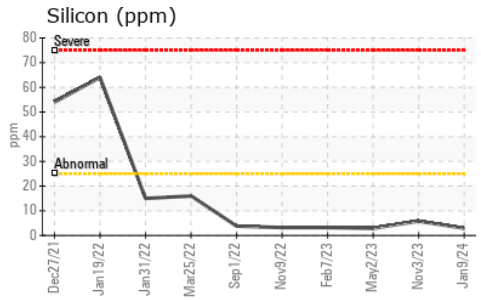


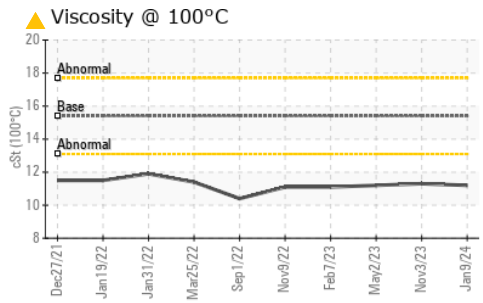


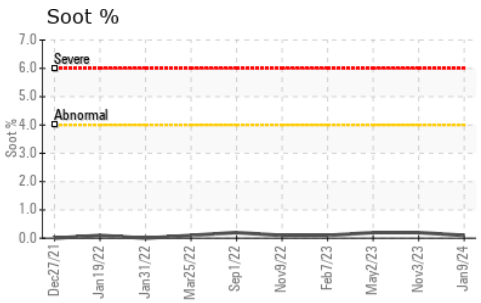












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107534
Lab Number : 02612303
Unique Number : 5721398
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

Received : 31 Jan 2024
Tested : 01 Feb 2024
Diagnosed : 01 Feb 2024 - Bill Quesnel

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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Report Id: GFL747 [WCAMIS] 02612303 (Generated: 02/12/2024 17:15:53) Rev: 1

Submitted By: Steve Voyer