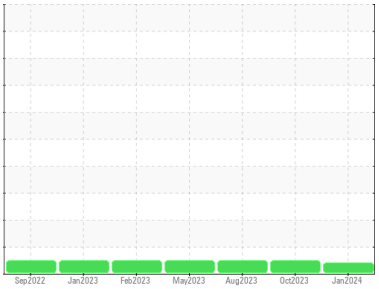
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
811039
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (32 LTR)

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. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		**GFL0107570**	GFL0096349	GFL0087630
Sample Date		Client Info		**23 Jan 2024**	26 Oct 2023	15 Aug 2023
Machine Age	kms	Client Info		**105728**	99275	87708
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	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**	0.0	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	**20**	28	26
Chromium	ppm	ASTM D5185(m)	>20	**2**	<1	1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	**6**	8	5
Lead	ppm	ASTM D5185(m)	>30	**0**	8	0
Copper	ppm	ASTM D5185(m)	>30	**1**	15	2
Tin	ppm	ASTM D5185(m)	>15	**0**	1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
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**	40	2
Barium	ppm	ASTM D5185(m)	0	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	**60**	66	59
Manganese	ppm	ASTM D5185(m)	0	**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	**987**	916	985
Calcium	ppm	ASTM D5185(m)	1070	**1080**	1244	1116
Phosphorus	ppm	ASTM D5185(m)	1150	**1025**	1042	1052
Zinc	ppm	ASTM D5185(m)	1270	**1180**	1252	1213
Sulfur	ppm	ASTM D5185(m)	2060	**2722**	2699	2470
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	**9**	8	4
Sodium	ppm	ASTM D5185(m)		**1**	6	2
Potassium	ppm	ASTM D5185(m)	>20	**8**	6	5
Fuel	%	ASTM D7593*	>3.0	**0.6**	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.3**	0.4	0.7
Nitration	Abs/cm	ASTM D7624*	>20	**7.4**	8.7	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.4**	24.5	22.4

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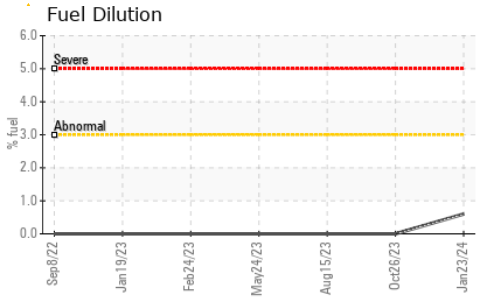
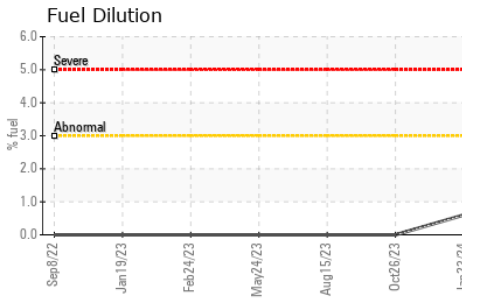


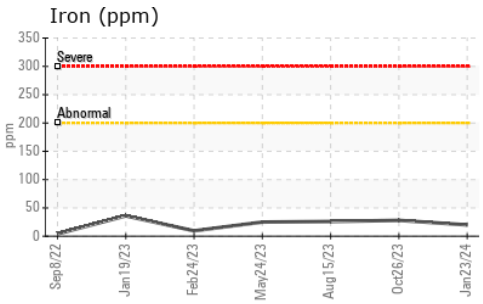


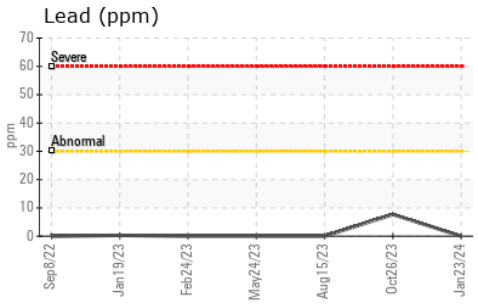
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.1**	22.3	16.6

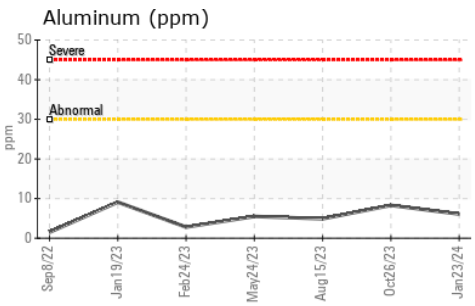
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

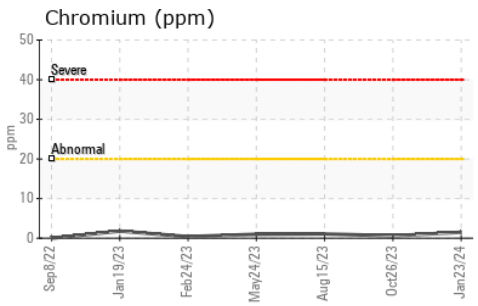
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ **11.4**	10.5	11.7

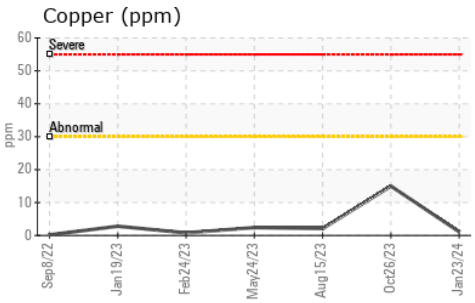
GRAPHS

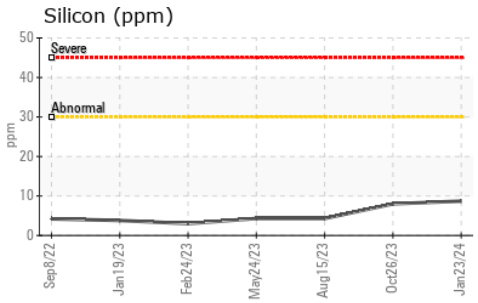


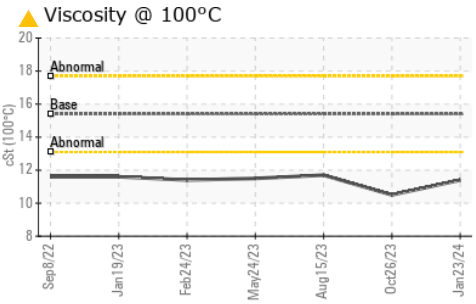


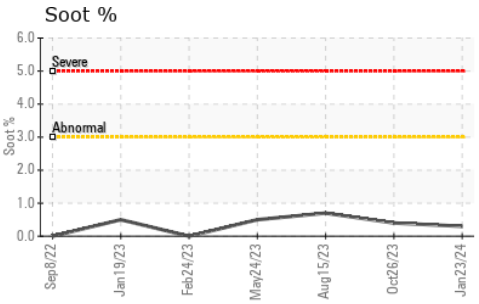












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107570
Lab Number : 02613416
Unique Number : 5722511
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

Received : 05 Feb 2024
Tested : 06 Feb 2024
Diagnosed : 06 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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