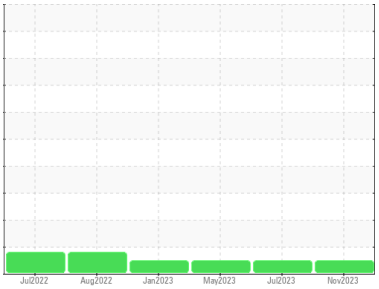
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
9228
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

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

Wear
Les taux d`usure de tous les composants sont normaux.

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

Fluid Condition
L`état de l`huile est acceptable pour la durée de service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0077975**	PC0077475	PC0071746
Sample Date		Client Info		**02 Nov 2023**	25 Jul 2023	18 May 2023
Machine Age	kms	Client Info		**333744**	322553	316178
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	**10**	35	37
Chromium	ppm	ASTM D5185(m)	>4	**<1**	2	2
Nickel	ppm	ASTM D5185(m)	>2	**0**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**1**	2	3
Lead	ppm	ASTM D5185(m)	>45	**<1**	1	1
Copper	ppm	ASTM D5185(m)	>85	**<1**	1	1
Tin	ppm	ASTM D5185(m)	>4	**0**	<1	0
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)	2	**14**	5	4
Barium	ppm	ASTM D5185(m)	0	**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	50	**60**	56	59
Manganese	ppm	ASTM D5185(m)	0	**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	**909**	888	913
Calcium	ppm	ASTM D5185(m)	1050	**1019**	989	1088
Phosphorus	ppm	ASTM D5185(m)	995	**973**	988	1064
Zinc	ppm	ASTM D5185(m)	1180	**1154**	1110	1186
Sulfur	ppm	ASTM D5185(m)	2600	**2561**	2337	2524
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	**3**	4	5
Sodium	ppm	ASTM D5185(m)		**3**	2	2
Potassium	ppm	ASTM D5185(m)	>20	**0**	<1	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.3**	1.3	1.2
Nitration	Abs/cm	ASTM D7624*	>20	**5.7**	11.0	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**18.8**	23.4	22.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**13.8**	18.8	18.5

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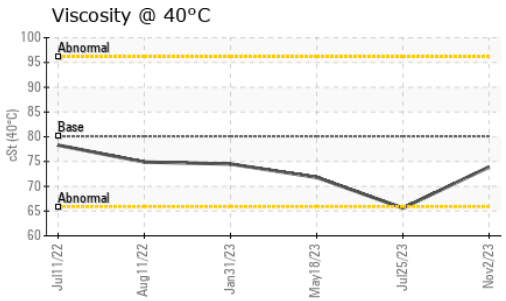
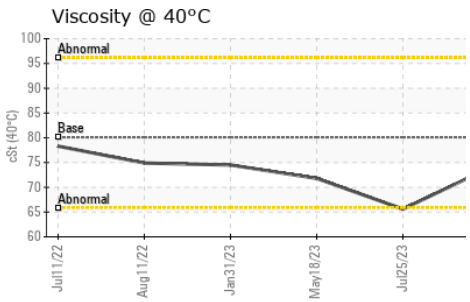
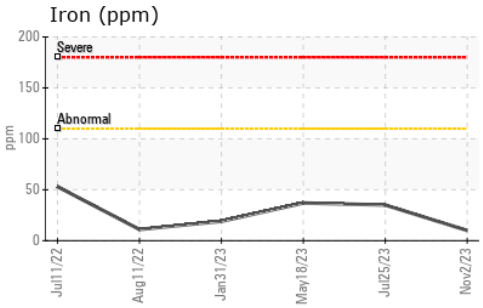


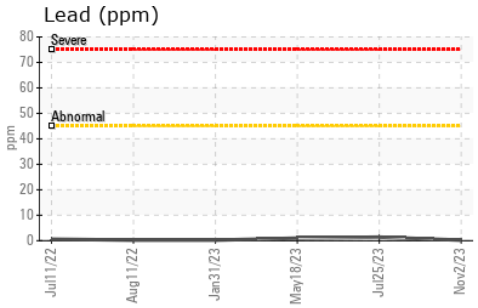


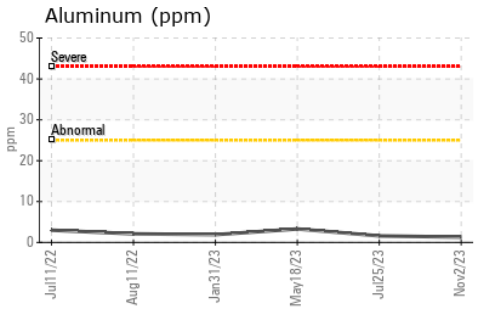
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

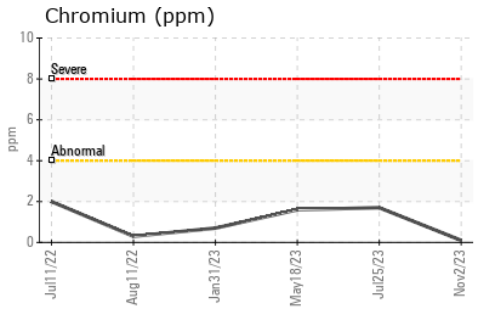
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	**73.9**	65.6	71.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**11.4**	10.4	11.0
Viscosity Index (VI)	Scale	ASTM D2270*	144	**146**	146	143

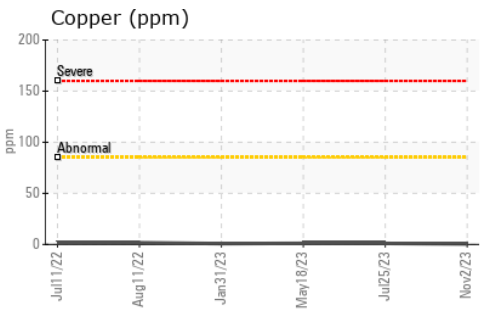
GRAPHS

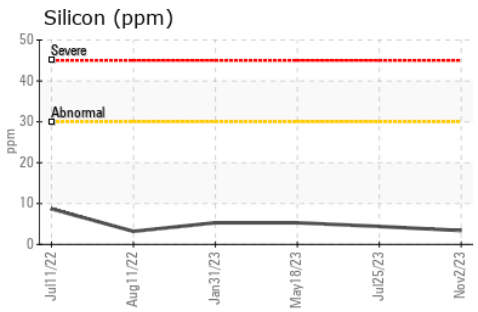


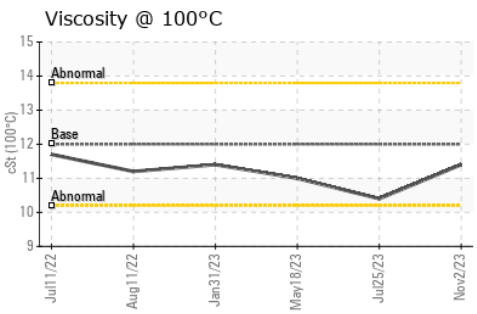


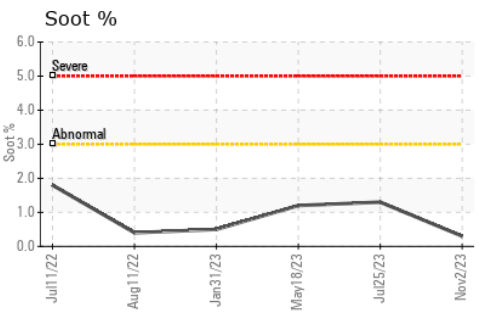












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 737 - Quebec City Hauling**
Sample No. : PC0077975 **Received** : 06 Nov 2023
Lab Number : 02594113 **Diagnosed** : 06 Nov 2023
Unique Number : 5671192 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.