OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id
833080
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier le filtre à air, le système d`induction d`air et tout endroit où la saleté peut entrer dans le composant. Nous vous recommandons de vidanger l`huile de ce composant si vous ne l`avez pas déjà fait. Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

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

Contamination

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. Les niveaux élémentaires de silicone (Si) et d`aluminium (Al) indiquent l`infiltration d`alumine-silicate (grosses particules de poussière).

Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. l`huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0087614**	---	---
Sample Date		Client Info		**20 Oct 2023**	---	---
Machine Age	kms	Client Info		**0**	---	---
Oil Age	kms	Client Info		**600**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	**62**	---	---
Chromium	ppm	ASTM D5185(m)	>5	**2**	---	---
Nickel	ppm	ASTM D5185(m)	>2	**2**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)	>3	**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>30	**7**	---	---
Lead	ppm	ASTM D5185(m)	>30	**3**	---	---
Copper	ppm	ASTM D5185(m)	>150	**19**	---	---
Tin	ppm	ASTM D5185(m)	>5	**2**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	**5**	---	---
Barium	ppm	ASTM D5185(m)	0	**4**	---	---
Molybdenum	ppm	ASTM D5185(m)	50	**105**	---	---
Manganese	ppm	ASTM D5185(m)	0	**12**	---	---
Magnesium	ppm	ASTM D5185(m)	950	**829**	---	---
Calcium	ppm	ASTM D5185(m)	1050	**1450**	---	---
Phosphorus	ppm	ASTM D5185(m)	995	**797**	---	---
Zinc	ppm	ASTM D5185(m)	1180	**964**	---	---
Sulfur	ppm	ASTM D5185(m)	2600	**2192**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	▲ **31**	---	---
Sodium	ppm	ASTM D5185(m)		**6**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**16**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0**	---	---
Nitration	Abs/cm	ASTM D7624*	>20	**11.7**	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**25.7**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**22.1**	---	---

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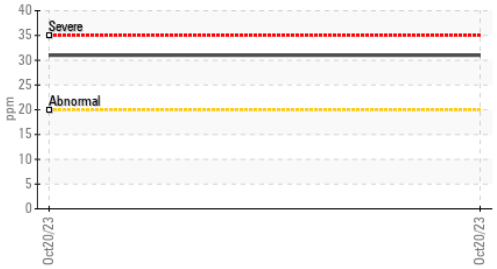
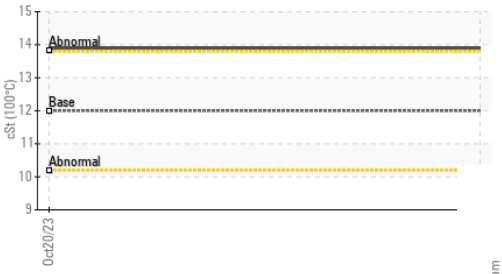
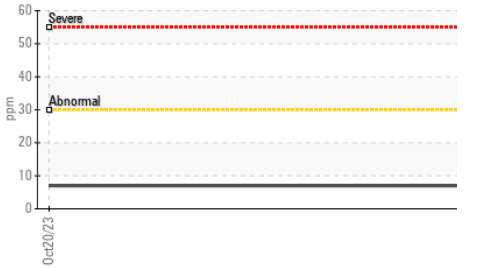
Silicon (ppm)



Viscosity @ 100°C



Aluminum (ppm)

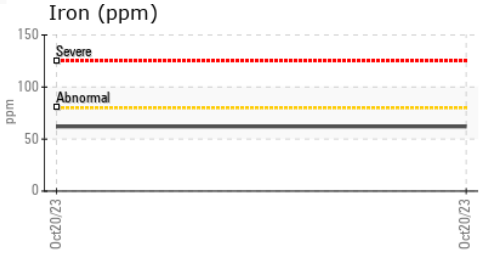


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**VLITE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

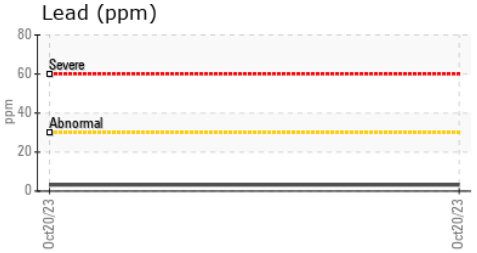
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**13.9**	---	---

GRAPHS

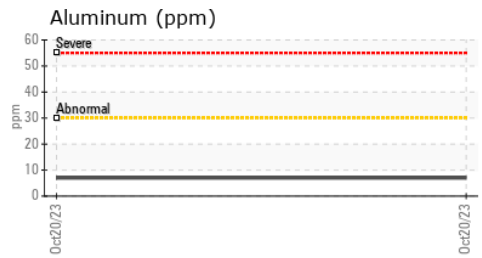
Iron (ppm)



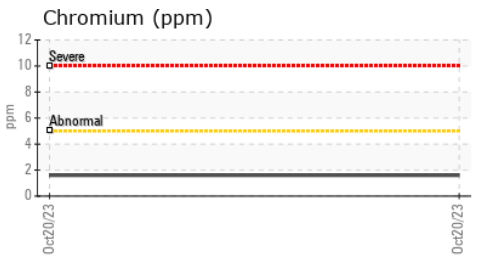
Lead (ppm)



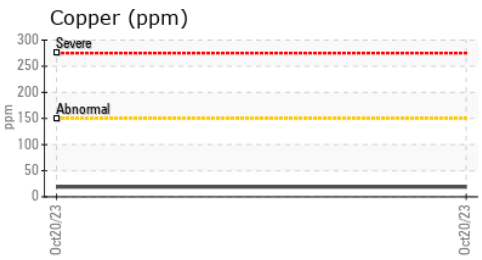
Aluminum (ppm)



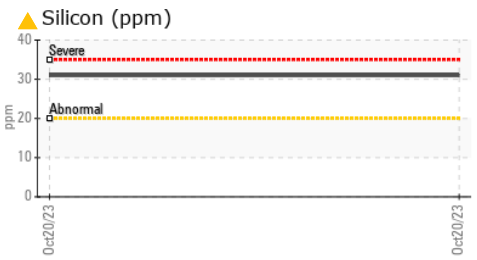
Chromium (ppm)



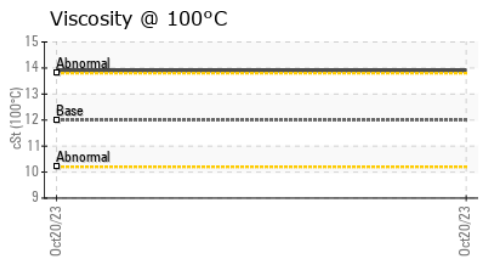
Copper (ppm)



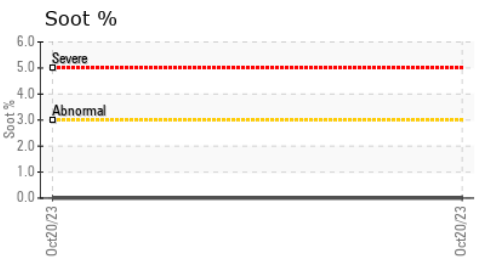
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0087614
Lab Number : 02591363
Unique Number : 5668442
Test Package : MOB 1 (Additional Tests: Visual)

Received : 24 Oct 2023
Diagnosed : 24 Oct 2023
Diagnostician : Kevin Marson

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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