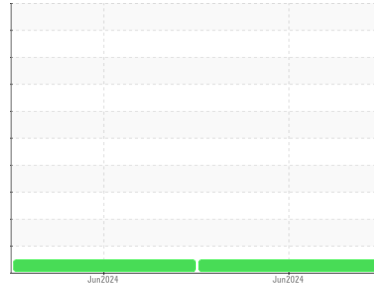




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
CAPLAN
 Machine Id
#4683
 Component
Front Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (40 LTR)

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		GFL0113448	GFL0113451	---
Sample Date	Client Info		21 Jun 2024	06 Jun 2024	---
Machine Age	hrs	Client Info	18258	0	---
Oil Age	hrs	Client Info	56	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>65	9	4	---
Chromium	ppm	ASTM D5185(m)	>5	<1	0	---
Nickel	ppm	ASTM D5185(m)	>3	<1	0	---
Titanium	ppm	ASTM D5185(m)	>5	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>35	3	2	---
Lead	ppm	ASTM D5185(m)	>10	0	0	---
Copper	ppm	ASTM D5185(m)	>180	<1	<1	---
Tin	ppm	ASTM D5185(m)	>8	0	0	---
Antimony	ppm	ASTM D5185(m)	>35	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	10	12	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	50	57	55	---
Manganese	ppm	ASTM D5185(m)	0	<1	0	---
Magnesium	ppm	ASTM D5185(m)	950	865	854	---
Calcium	ppm	ASTM D5185(m)	1050	1072	1048	---
Phosphorus	ppm	ASTM D5185(m)	995	962	942	---
Zinc	ppm	ASTM D5185(m)	1180	1140	1121	---
Sulfur	ppm	ASTM D5185(m)	2600	2568	2541	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

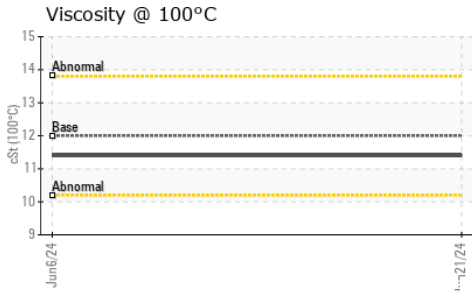
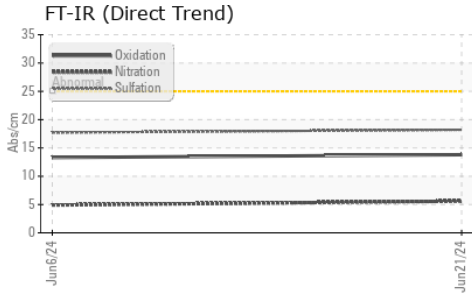
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	4	4	---
Sodium	ppm	ASTM D5185(m)		4	4	---
Potassium	ppm	ASTM D5185(m)	>20	1	<1	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.6	4.9	---
Sulfation	Abs./1mm	ASTM D7415*	>30	18.2	17.7	---



OIL ANALYSIS REPORT

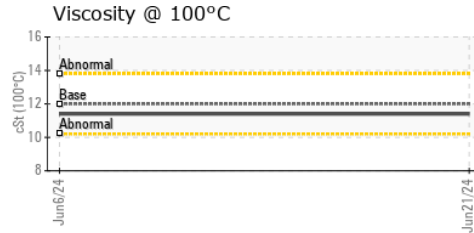
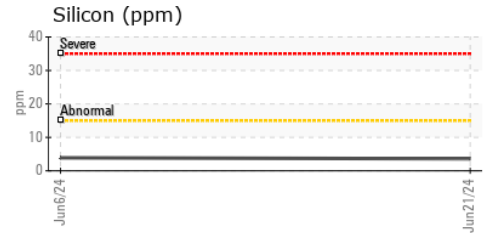
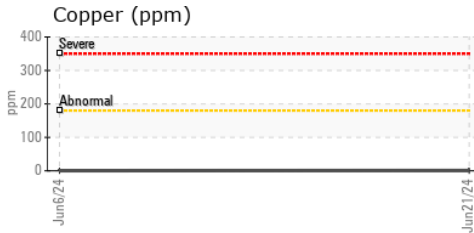
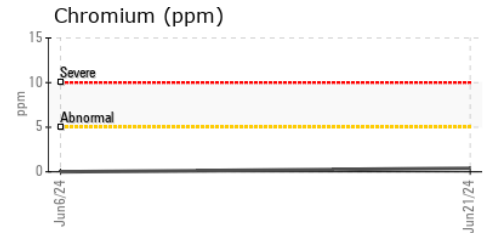
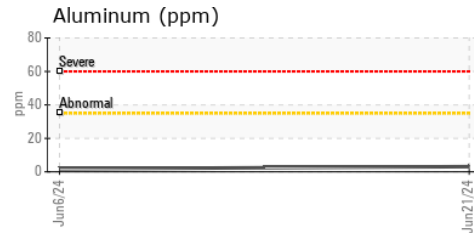
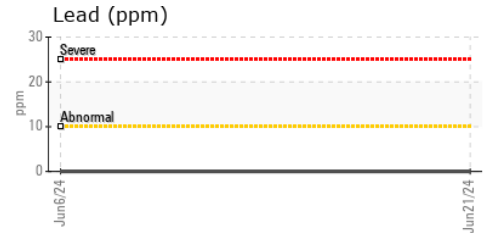
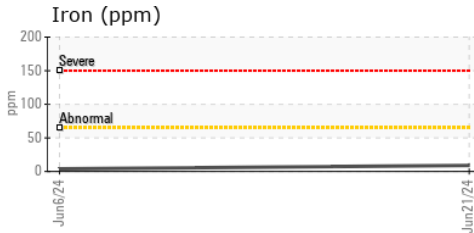


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	13.8	13.3	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.4	11.4	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113448 **Received** : 28 Jun 2024
Lab Number : **02644527** **Tested** : 28 Jun 2024
Unique Number : 5802066 **Diagnosed** : 28 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

Matrec - 791 - Rimouski
 350 Avenue de L'Industrie
 Rimouski, QC
 CA G5M 1W4
 Contact: Vincent Maltais
 info@foretsstar.com
 T: 4(18)388-2626
 F: (418)388-2038

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.