



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Machine Id
830030
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0120735	GFL0047483	GFL0067370
Sample Date		Client Info		28 May 2024	15 Jun 2023	17 Jan 2023
Machine Age	hrs	Client Info		111851	0	4374
Oil Age	hrs	Client Info		0	2400	600
Filter Age	hrs	Client Info		0	2400	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>80	13	15	27
Chromium	ppm	ASTM D5185(m)	>5	<1	1	2
Nickel	ppm	ASTM D5185(m)	>2	0	<1	1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	1	2	4
Lead	ppm	ASTM D5185(m)	>30	<1	8	19
Copper	ppm	ASTM D5185(m)	>150	2	2	3
Tin	ppm	ASTM D5185(m)	>5	0	1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

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

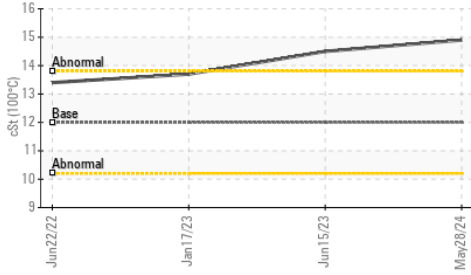
Silicon	ppm	ASTM D5185(m)	>20	3	14	15
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.0	13.5	14.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.9	26.1	31.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

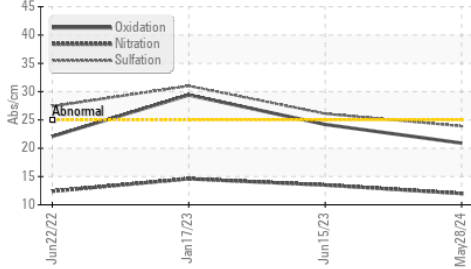
La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		3	5	6
Boron	ppm	ASTM D5185(m)	2	8	10	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	59	55	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	2
Magnesium	ppm	ASTM D5185(m)	950	726	883	833
Calcium	ppm	ASTM D5185(m)	1050	1420	1311	1560
Phosphorus	ppm	ASTM D5185(m)	995	668	803	824
Zinc	ppm	ASTM D5185(m)	1180	892	937	959
Sulfur	ppm	ASTM D5185(m)	2600	1960	2036	2097
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.9	24.2	29.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	▲ 14.9	14.5	13.7

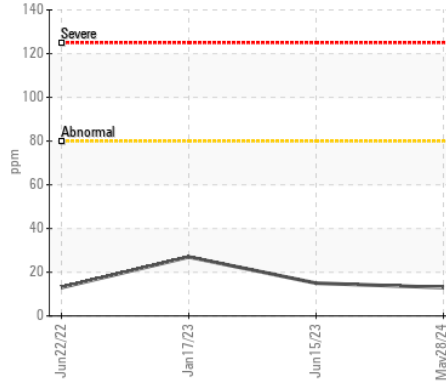
▲ Viscosity @ 100°C



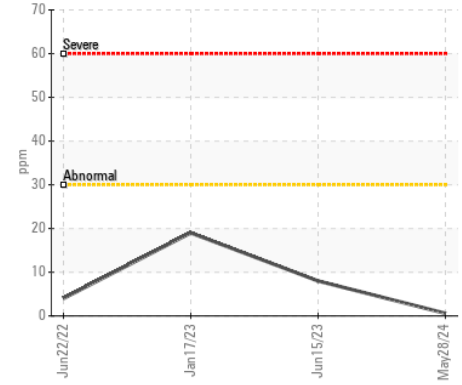
FT-IR (Direct Trend)



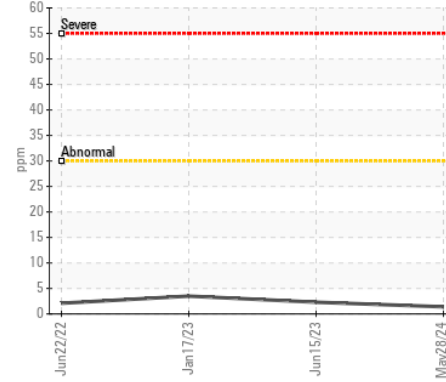
Iron (ppm)



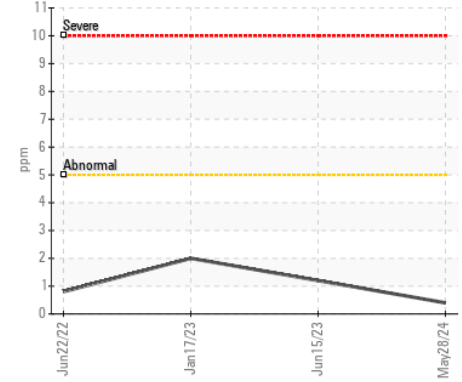
Lead (ppm)



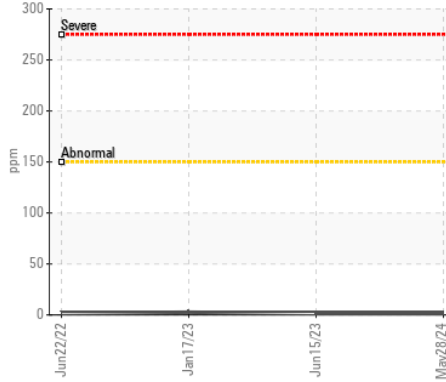
Aluminum (ppm)



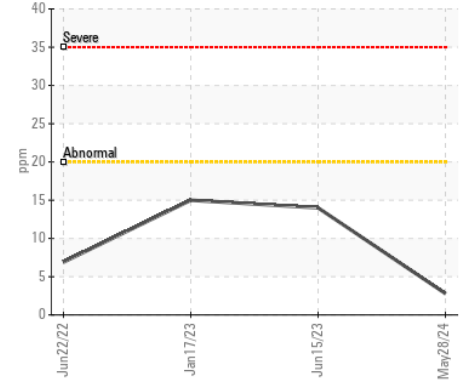
Chromium (ppm)



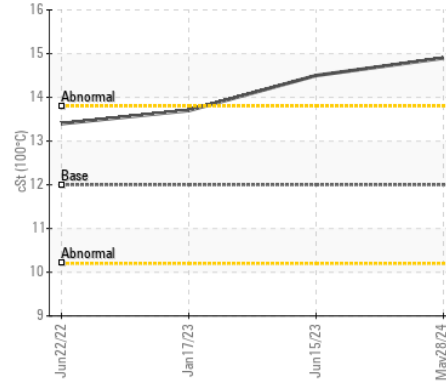
Copper (ppm)



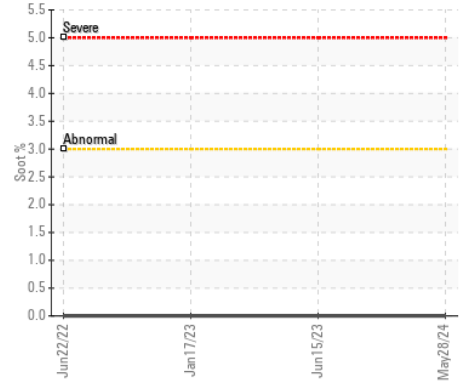
Silicon (ppm)



▲ Viscosity @ 100°C



Soot %



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0120735
Lab Number : 02640101
Unique Number : 5789263
Test Package : MOB 1

GFL Environmental - 747 - GMA - Solid Waste
 4 Chemin du Tremblay,
 Boucherville, QC
 CA J4B 6Z5
 Contact: Steve Voyer
 svoyer@matrec.ca

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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F: