



Machine Id
830019
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0081883	PC0066584	GFL0017989
Sample Date		Client Info		12 Dec 2023	14 Dec 2022	21 Apr 2021
Machine Age	hrs	Client Info		0	0	2396
Oil Age	hrs	Client Info		0	0	600
Filter Age	hrs	Client Info		0	0	600
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Usure de piston. Le diagnostic reflète les données mises à jour sur ce composant.

Iron	ppm	ASTM D5185(m)	>90	33	60	32
Chromium	ppm	ASTM D5185(m)	>20	3	5	3
Nickel	ppm	ASTM D5185(m)	>2	2	3	1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	▲ 25	▲ 30	26
Lead	ppm	ASTM D5185(m)	>40	2	12	2
Copper	ppm	ASTM D5185(m)	>330	5	9	5
Tin	ppm	ASTM D5185(m)	>15	1	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

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

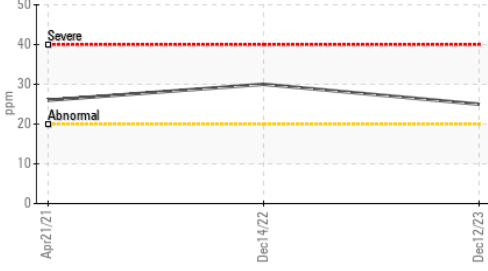
Silicon	ppm	ASTM D5185(m)	>25	9	17	8
Potassium	ppm	ASTM D5185(m)	>20	21	28	38
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.6	13.9	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	30.3	30.3	28.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

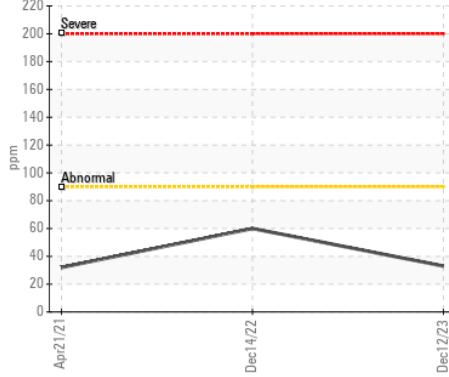
Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		12	6	10
Boron	ppm	ASTM D5185(m)	0	6	11	5
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	62	76	79
Manganese	ppm	ASTM D5185(m)	0	<1	2	4
Magnesium	ppm	ASTM D5185(m)	1010	674	913	436
Calcium	ppm	ASTM D5185(m)	1070	1791	1726	1680
Phosphorus	ppm	ASTM D5185(m)	1150	876	1053	765
Zinc	ppm	ASTM D5185(m)	1270	1059	1203	992
Sulfur	ppm	ASTM D5185(m)	2060	2196	2314	2226
Oxidation	Abs/.1mm	ASTM D7414*	>25	27.7	27.7	19.7
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	120	105	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.8	13.7	13.4
Viscosity Index (VI)	Scale	ASTM D2270*	142	126	130	---

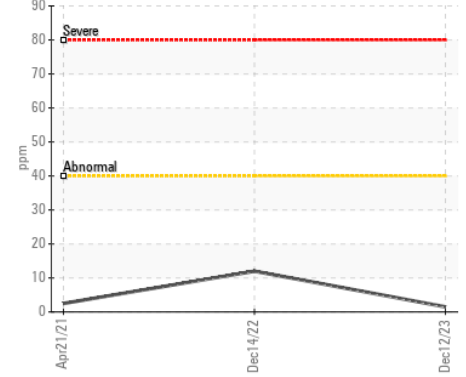
▲ Aluminum (ppm)



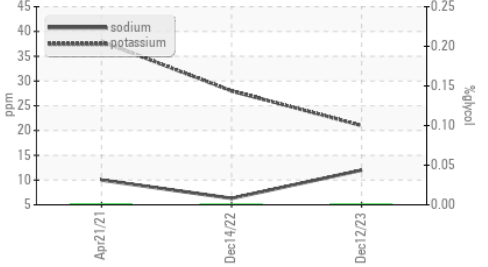
Iron (ppm)



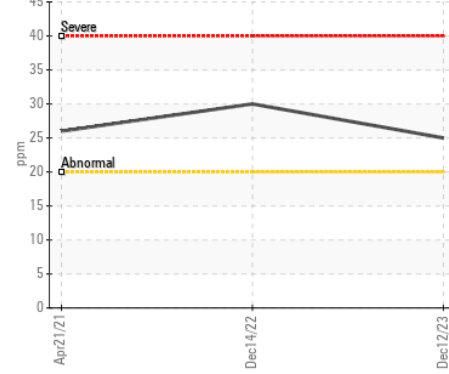
Lead (ppm)



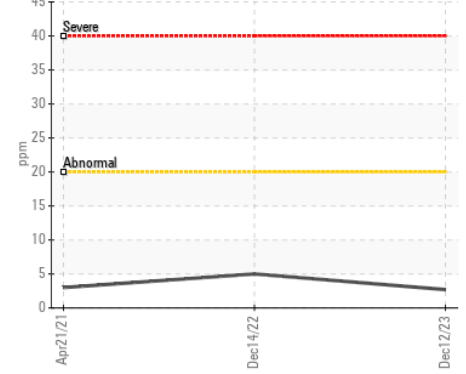
Glycol Contamination



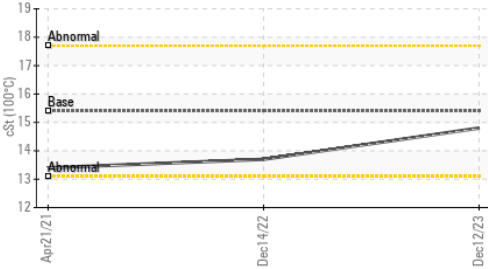
▲ Aluminum (ppm)



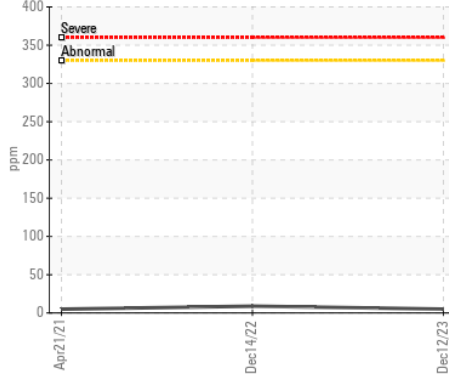
Chromium (ppm)



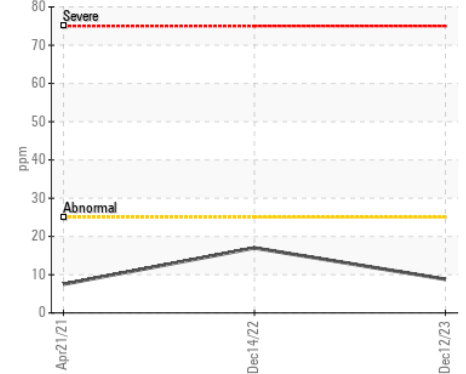
Viscosity @ 100°C



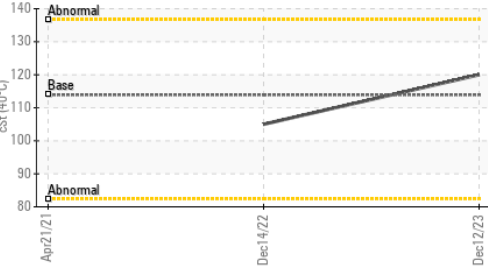
Copper (ppm)



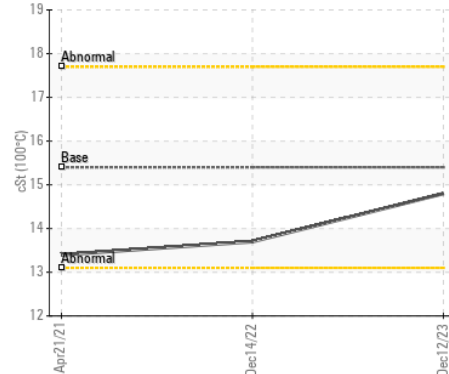
Silicon (ppm)



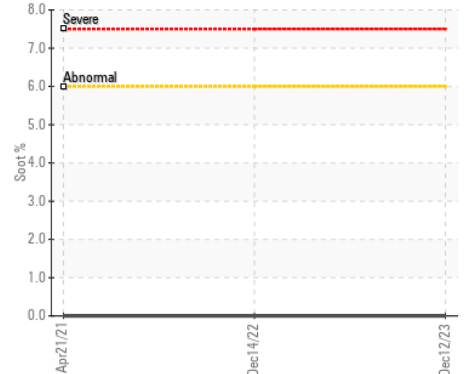
Viscosity @ 40°C



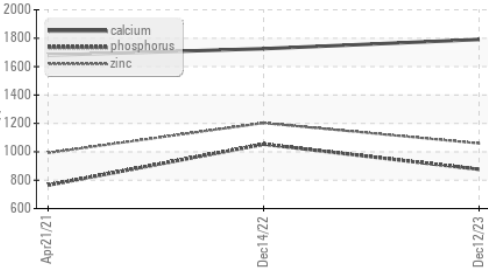
Viscosity @ 100°C



Soot %



Additives



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 742 - Quebec City Solid Waste
Sample No. : PC0081883 **Received** : 08 Jan 2024 5160 Jean-Talon Pierre-Bertrand Bou
Lab Number : 02606940 **Diagnosed** : 09 Jan 2024 Quebec City, QC
Unique Number : 5708026 **Diagnostician** : Kevin Marson CA G2J 1B7
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI) Contact: Jean Audet
 Jaudet@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: