



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
WESTERN STAR 822054
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- LTR)

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		PC0088204	GFL0094635	GFL0100790
Sample Date		Client Info		29 May 2024	12 Feb 2024	17 Nov 2023
Machine Age	hrs	Client Info		5004	4403	3986
Oil Age	hrs	Client Info		601	417	592
Filter Age	hrs	Client Info		601	417	592
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>100	15	13	21
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	8	8	13
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

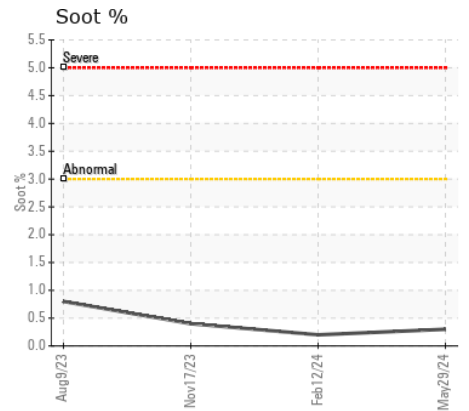
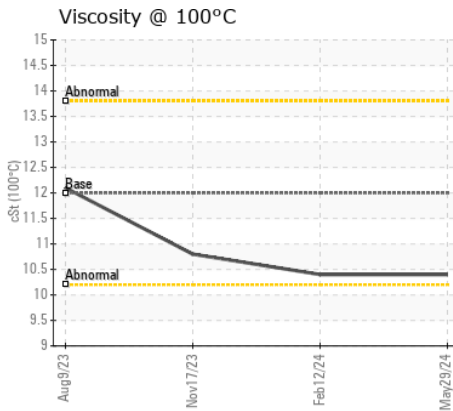
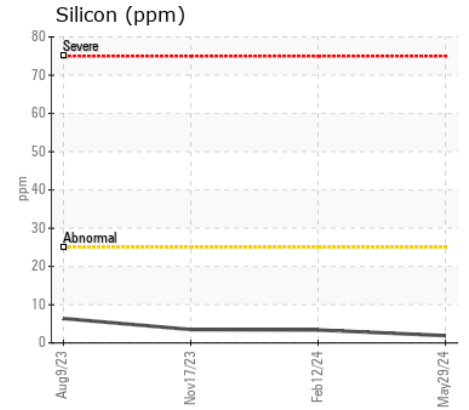
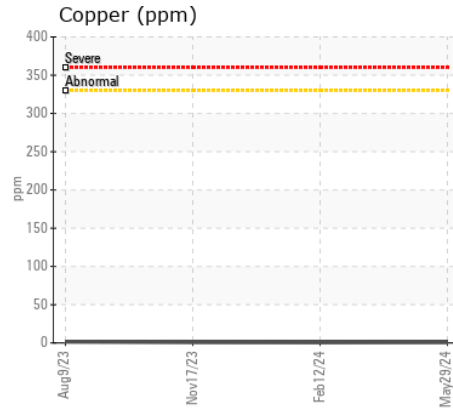
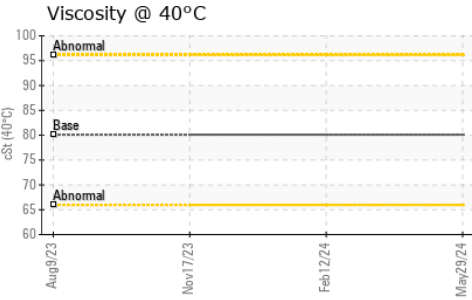
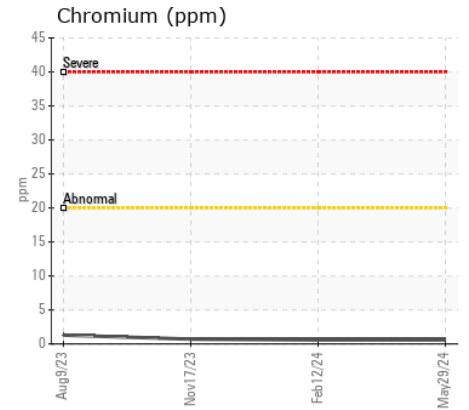
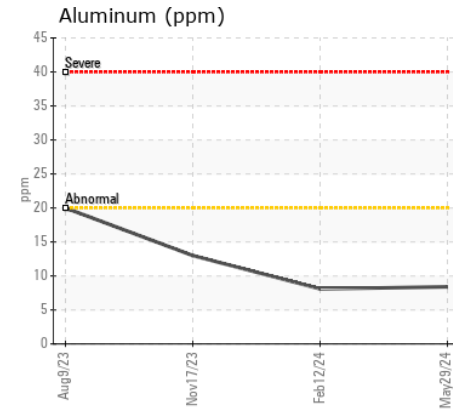
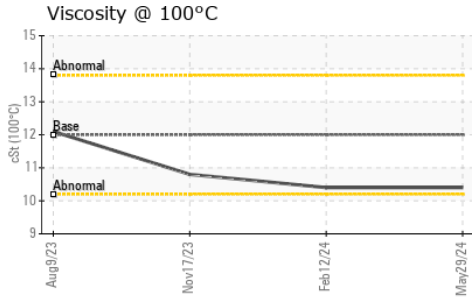
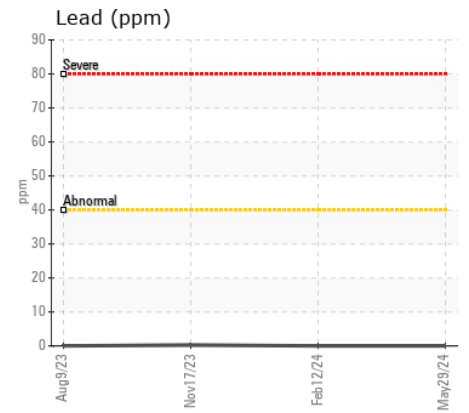
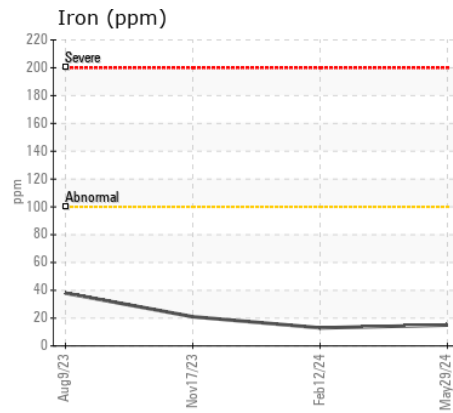
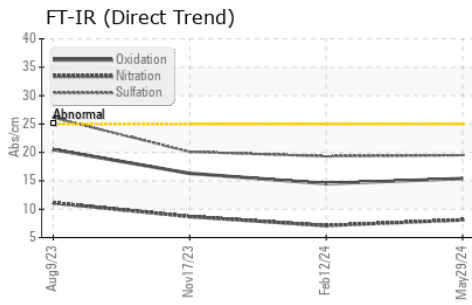
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	10	9	25
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	0.3	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	8.1	7.1	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5	19.3	20.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		5	3	5
Boron	ppm	ASTM D5185(m)	2	13	14	12
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	61	63	64
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	893	947	911
Calcium	ppm	ASTM D5185(m)	1050	1049	1091	1075
Phosphorus	ppm	ASTM D5185(m)	995	955	1037	963
Zinc	ppm	ASTM D5185(m)	1180	1130	1177	1136
Sulfur	ppm	ASTM D5185(m)	2600	2433	2776	2410
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.4	14.5	16.3
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	65.6	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.4	10.4	10.8
Viscosity Index (VI)	Scale	ASTM D2270*	144	146	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088204
Lab Number : 02639384
Unique Number : 5788546
Test Package : MOB 1 (Additional Tests: KV40, VI)

GFL Environmental 791MAT - Matane
 29 rue Brilliant
 Matane, QC
 CA G4W 0J7
 Contact: B Berube
 bberube@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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