



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
501117
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0108182	GFL0084210	GFL0055392
Sample Date		Client Info		19 Feb 2024	12 Jul 2023	11 Aug 2022
Machine Age	kms	Client Info		665559	587438	475117
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	21	20	30
Chromium	ppm	ASTM D5185(m)	>5	2	2	5
Nickel	ppm	ASTM D5185(m)	>2	1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	7	6	16
Lead	ppm	ASTM D5185(m)	>30	<1	<1	0
Copper	ppm	ASTM D5185(m)	>150	10	13	10
Tin	ppm	ASTM D5185(m)	>5	<1	1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

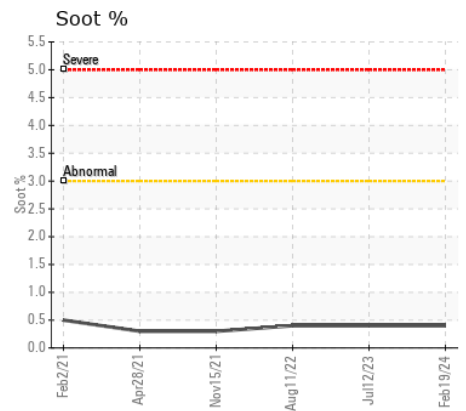
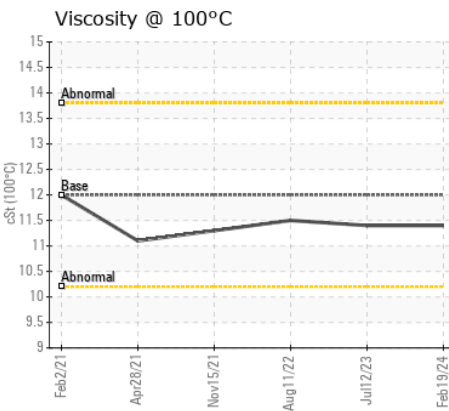
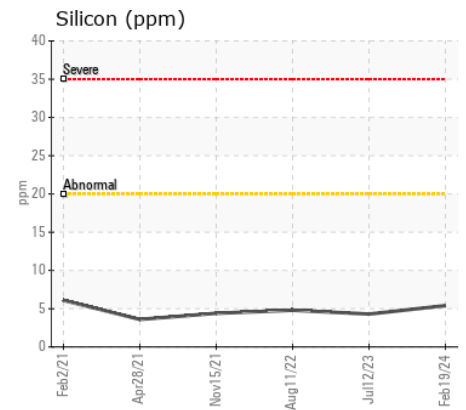
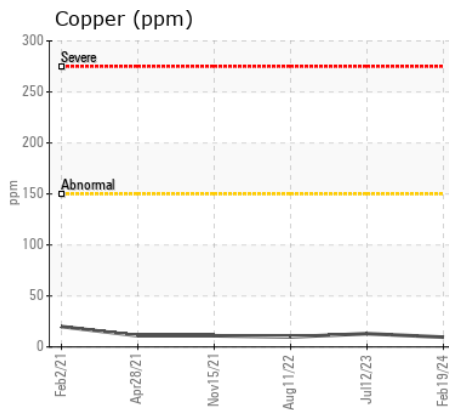
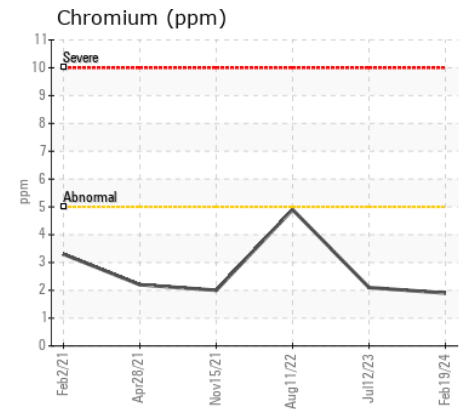
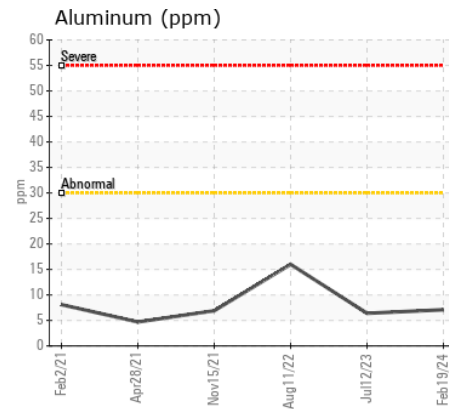
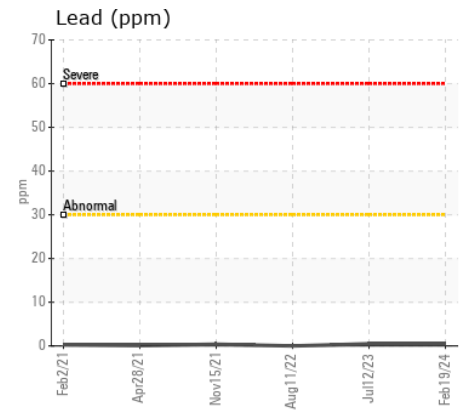
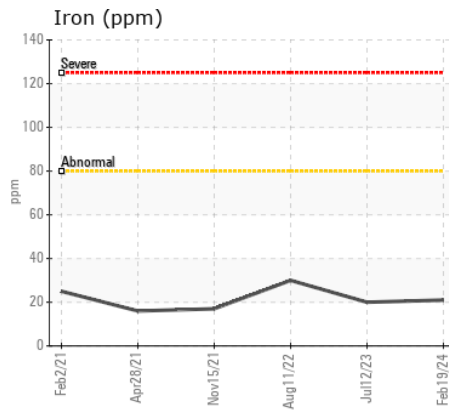
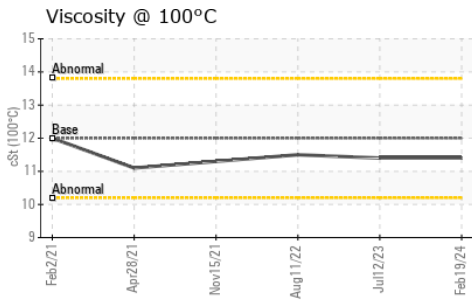
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	5	4	5
Potassium	ppm	ASTM D5185(m)	>20	2	<1	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.4	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	8.9	8.9	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	21.6	20.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	2	6	3	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	61	60	61
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	969	984	979
Calcium	ppm	ASTM D5185(m)	1050	1159	1150	1143
Phosphorus	ppm	ASTM D5185(m)	995	991	1033	983
Zinc	ppm	ASTM D5185(m)	1180	1222	1239	1239
Sulfur	ppm	ASTM D5185(m)	2600	2325	2029	2354
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	17.9	16.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.4	11.4	11.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0108182
Lab Number : 02617367
Unique Number : 5734477
Test Package : MOB 1
Received : 22 Feb 2024
Tested : 22 Feb 2024
Diagnosed : 22 Feb 2024 - Wes Davis

GFL Environmental - 245 - BJ Bear
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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.