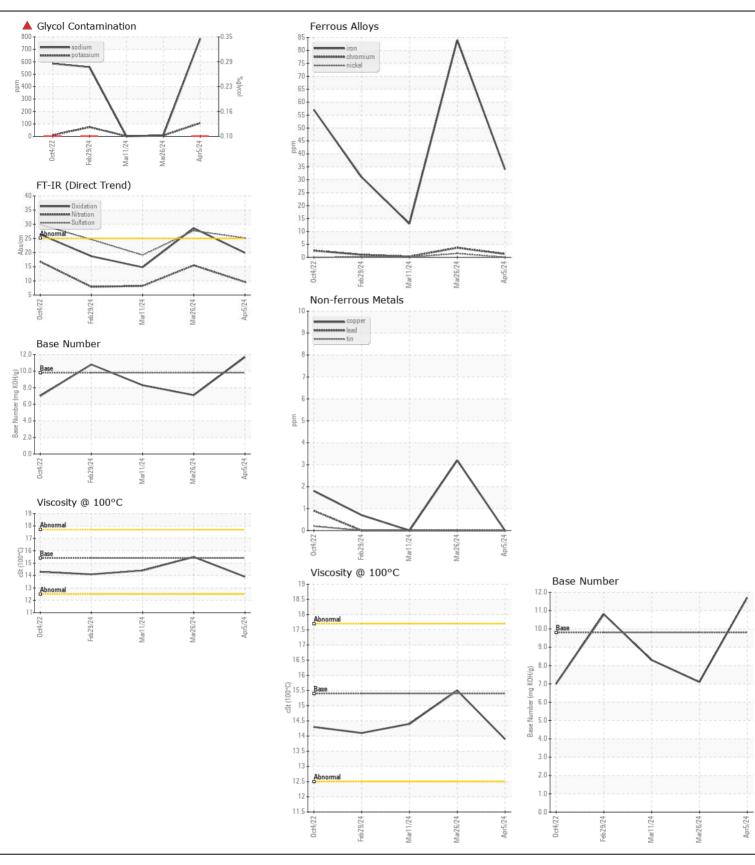
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL



Machine Id 577M **Diesel Engine**

PETRO CANADA DURON SHP	15W40 (5 G	AL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Resampled)	Sample Number		Client Info		GFL0115139	GFL0115111	GFL0115191
	Sample Date		Client Info		05 Apr 2024	26 Mar 2024	11 Mar 2024
	Machine Age	hrs	Client Info		4952	4950	4945
	Oil Age	hrs	Client Info		23	5	16
	Filter Age	hrs	Client Info		23	5	16
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	34	<u> </u>	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	4	<1
	Nickel	ppm	ASTM D5185m	>2	0	2	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	9	4
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	0	3	0
	Tin	ppm	ASTM D5185m	>15	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Sodium and/or potassium levels are high. Test for glycol is positive.	Silicon	ppm	ASTM D5185m	>25	21	15	6
	Potassium	ppm	ASTM D5185m	>20	107	7	1
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		▲ 0.10	NEG	NEG
	Soot %	%	*ASTM D7844	>6	1.6	1.9	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	15.5	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	27.7	19.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4 787	7	1
	Boron	ppm	ASTM D5185m	0	68	1	0
The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	84	63	60
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	691	1071	948
	Calcium	ppm	ASTM D5185m	1070	1553	1216	1056
	Phosphorus	ppm	ASTM D5185m	1150	927	1126	1052
	Zinc	ppm	ASTM D5185m		1081	1372	1271
	Sulfur	ppm	ASTM D5185m	2060	3357	3508	3445
	Oxidation	Abs/.1mm	*ASTM D7414		19.9	28.6	14.8
	Base Number (BN)	mg KOH/g			11.7	7.1	8.3
	Visc @ 100°C	cSt	ASTM D445	15.4	13.9	15.5	14.4







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115139 Lab Number : 06150106 Unique Number : 10980184

Received **Tested**

: 16 Apr 2024 : 17 Apr 2024 Diagnosed

: 18 Apr 2024 - Jonathan Hester

GFL Environmental - 405 - Arbor Hills 7811 Chubb Rd NORTHVILLE, MI US 48168

> Contact: Anthony Hopkins ahopkins@gflenv.com T:

Test Package: FLEET (Additional Tests: Glycol) To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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