WEAR CONTAMINATION FLUID CONDITION

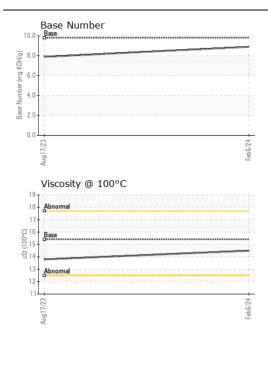
NORMAL NORMAL

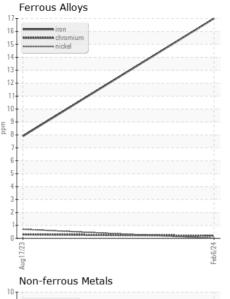


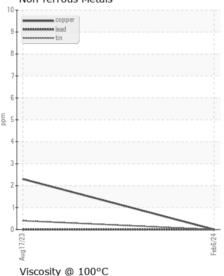
Machine Id 912022 Component Diesel Engine Fluid

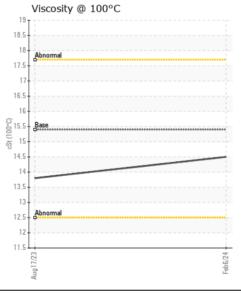
PETRO CANADA DURON SHP 15W40 (--- GAL)

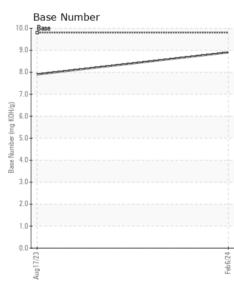
DECOMMENDATION.	- .	11011		11 1.741	()	L	1111
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0110036	GFL0085057	
	Sample Date		Client Info		06 Feb 2024	17 Aug 2023	
	Machine Age	hrs	Client Info		5275	4680	
	Oil Age	hrs	Client Info		600	4680	
	Filter Age	hrs	Client Info		600	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed Sample Status		Client Info		Changed NORMAL	Changed NORMAL	
	Sample Status				NORWAL	NORIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>120	17	8	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m	>2	0	<1	
	Silver	ppm	ASTM D5185m	>2	0	<1	
	Aluminum	ppm	ASTM D5185m	>20	2	0	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	0	2	
	Tin	ppm	ASTM D5185m	>15	0	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTABINATION	Ciliana		ACTM DE10E	05	4		
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m		4 0	3	
There is no indication of any contamination in the oil.	Fuel	ppm	ASTM D5185m WC Method	>3.0		<1.0	
	Water		WC Method		<1.0 NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	~1	1	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	6.8	
	Sulfation	Abs/.1mm	*ASTM D7415		20.7	19.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron		ASTM D5185m		2	2	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		57	62	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		913	1012	
	Calcium	ppm	ASTM D5185m		991	1141	
	Phosphorus	ppm	ASTM D5185m		1048	1024	
	Zinc	ppm	ASTM D5185m		1224	1267	
	Sulfur	ppm Abo/ 1mm	ASTM D5185m		2876	3446	
	Oxidation	Abs/.1mm	*ASTM D7414 ASTM D2896		16.5	14.7	
	Base Number (BN)		ASTM D2896 ASTM D445		8.9	7.9	
	Visc @ 100°C	cSt	A3 1 IVI D443	13.4	14.5	13.8	













Laboratory Sample No.

Lab Number : 06085768 Unique Number : 10873213

: GFL0110036 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 **Tested** : 13 Feb 2024

Diagnosed : 13 Feb 2024 - Wes Davis

GFL Environmental - 410 - Michigan West 39000 Van Born Rd Wayne, MI

US 48184 Contact: Belal Dgheish bdgheish@gflenv.com

T: (734)714-2340

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)