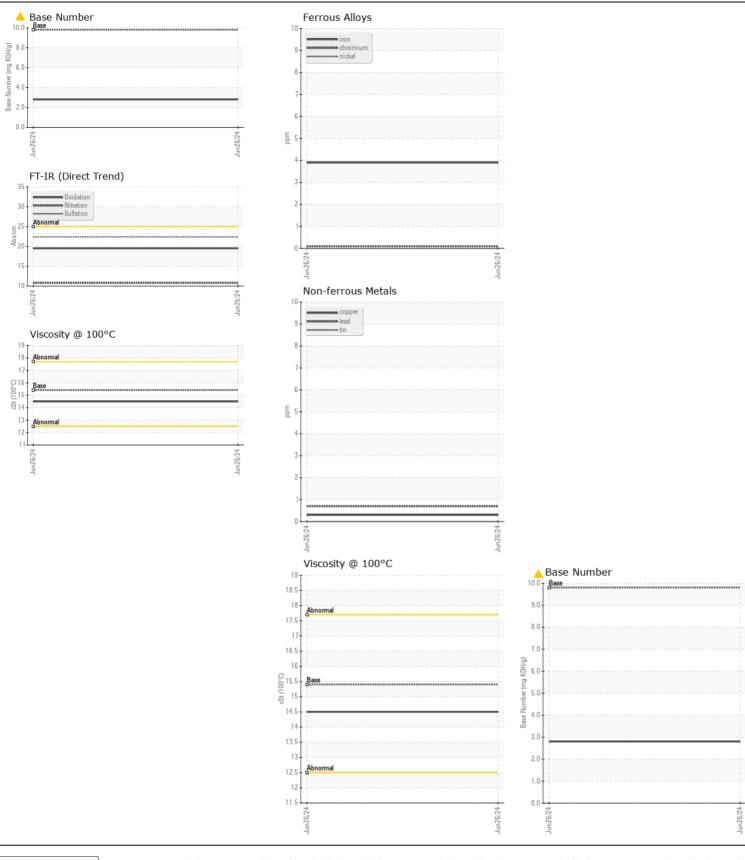
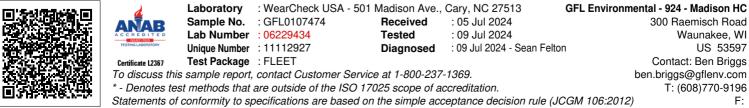


## Machine Id 947000 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

					( )		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0107474		
	Sample Date		Client Info		26 Jun 2024		
	Machine Age	hrs	Client Info		39329		
	Oil Age	hrs	Client Info		598		
	Filter Age	hrs	Client Info		598		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	4		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	<1		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	<1		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5		
The set is the distribution of a set of the distribution in the set	Potassium	ppm	ASTM D5185m	>20	<1		
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	10.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		13		
The BN level is low	Boron	ppm	ASTM D5185m		12		
The BN level is low.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	60	50		
	Manganese	ppm	ASTM D5185m	0	<1		
	Magnesium	ppm	ASTM D5185m	1010	542		
	Calcium	ppm	ASTM D5185m	1070	1661		
	Phosphorus	ppm	ASTM D5185m	1150	662		
	Zinc	ppm	ASTM D5185m	1270	926		
	Sulfur	ppm	ASTM D5185m	2060	2556		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5		
	Base Number (BN)	mg KOH/g	ASTM D2896		<b>A</b> 2.8		
	Visc @ 100°C	cSt	ASTM D445		14.5		
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Submitted By: GFL912, GFL921, GFL924 - LEONARD KOZLEUCHAR Page 2 of 2