

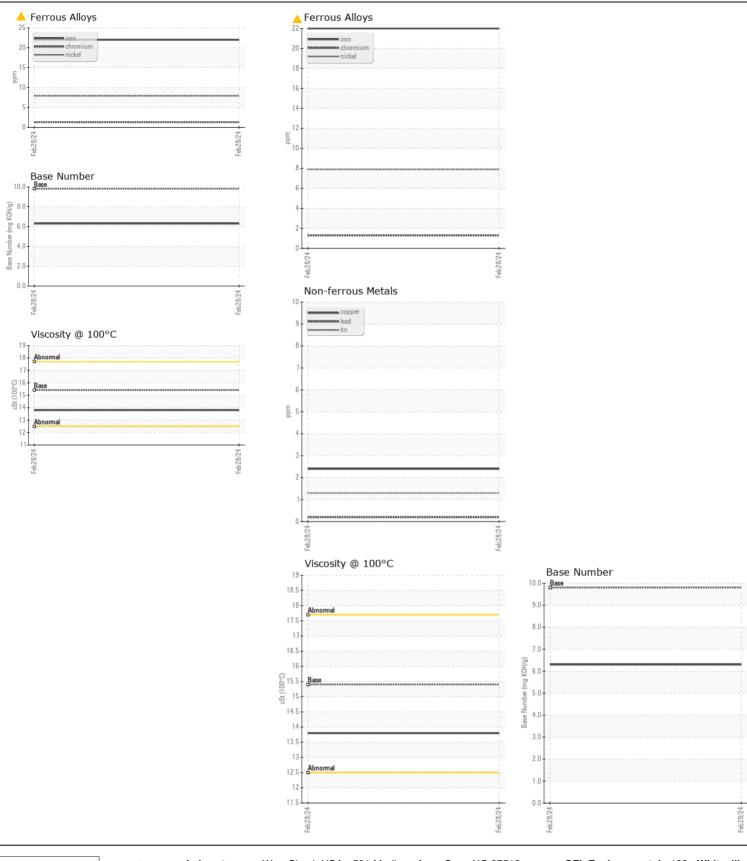
Machine Id **313035** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

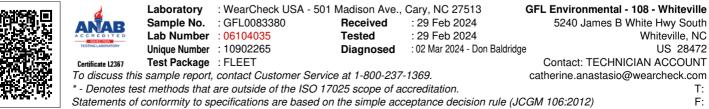
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00101	Client Info	Ennerton	GFL0083380		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		28 Feb 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status		0.0.0.0		ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	22		
Valve wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1		
valve wear is indicated. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	8		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	2		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Ciliana			05	F		
CONTAMINATION	Silicon	ppm	ASTM D5185m		5		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot % Nitration	%	*ASTM D7844 *ASTM D7624	>3 >20	0.9 10.0		
	Sulfation	Abs/cm	*ASTM D7624		21.5		
	Silt	Abs/.1mm scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt		*Visual	NONE	NONE		
	Appearance	scalar scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
		Scalai	visuai	20.2			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4		
	Boron	ppm	ASTM D5185m	0	2		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	60	62		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m	1010	1019		
	Calcium	ppm	ASTM D5185m		1065		
	Phosphorus	ppm	ASTM D5185m	1150	1027		
	Zinc	ppm	ASTM D5185m	1270	1334		
	Sulfur	ppm	ASTM D5185m	2060	3052		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.3		
	Vier C 10000	- 01		4 - 4	10.0		

Visc@100°C cSt

ASTM D445 15.4

13.8





Contact/Location: TECHNICIAN ACCOUNT - GFL108