

# REPORT

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### GFL004 Machine Id NOT GIVEN GFL0119670 Component

## Diesel Engine

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

	<b>/</b>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		GFL0119670		
	Sample Date		Client Info		20 Jun 2024		
	Machine Age	hrs	Client Info		12591		
	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				NORMAL		
	lron			. 100	A		
WEAR	Iron	ppm	ASTM D5185m		4		
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>4			
	Silver	ppm		. 0	0		
	Aluminum	ppm	ASTM D5185m ASTM D5185m		0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m ASTM D5185m		0 <1		
	Tin	ppm ppm	ASTM D5185m	>330	<1 0		
	Vanadium	ppm	ASTM D5185m	>15	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		304141	VISUAI				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1		
	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		>20	4.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.5		
	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		1		
	Boron	ppm	ASTM D5185m	0	17		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	60	56		
	Manganese	ppm	ASTM D5185m	0	0		
	Magnesium	ppm	ASTM D5185m	1010	907		
	Calcium	ppm	ASTM D5185m	1070	1052		
	Phosphorus	ppm	ASTM D5185m	1150	1028		
	Zinc	ppm	ASTM D5185m	1270	1242		
	Sulfur	ppm	ASTM D5185m	2060	3673		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0		
	<b>D L L L L L L L L L L</b>	L/OLL:	LOTH DOGES	0.0			

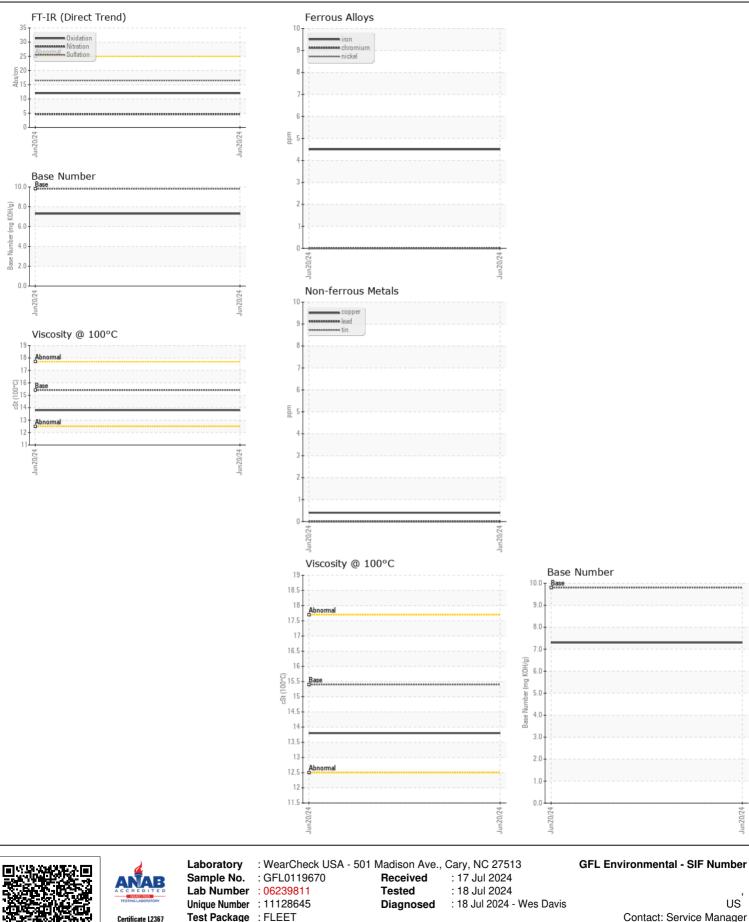
Base Number (BN) mg KOH/g ASTM D2896 9.8

ASTM D445 15.4

Visc @ 100°C cSt

7.3

13.8



\* - 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)

Contact/Location: Service Manager - GFLNOSIF Page 2 of 2