

## **OIL ANALYSIS REPORT**



Machine Id

### 821081

#### Component Diesel Engine

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

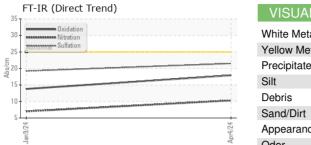
#### Fluid Condition

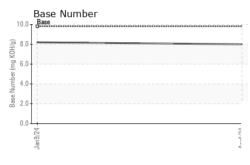
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

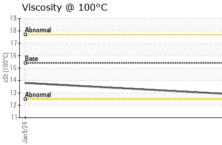
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118487	GFL0095332	
Sample Date		Client Info		04 Apr 2024	09 Jan 2024	
Machine Age	hrs	Client Info		0	7646	
Oil Age	hrs	Client Info		0	650	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	50	16	
Chromium	ppm	ASTM D5185m	>20	2	0	
Nickel	ppm	ASTM D5185m	>4	- <1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	7	2	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	10	<1	
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	65	61	
Manganese	ppm	ASTM D5185m	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	921	939	
Calcium	ppm	ASTM D5185m	1070	1074	1022	
Phosphorus	ppm	ASTM D5185m	1150	966	964	
Zinc	ppm	ASTM D5185m	1270	1145	1264	
Sulfur	ppm	ASTM D5185m	2060	3193	2946	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	17	3	
Sodium	ppm	ASTM D5185m		49	31	
Potassium	ppm	ASTM D5185m	>20	31	33	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	10.3	7.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	19.2	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	13.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.2	



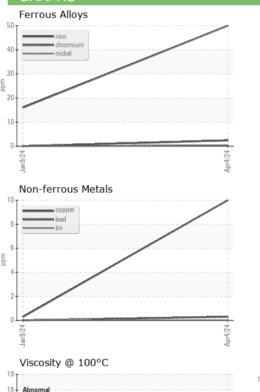
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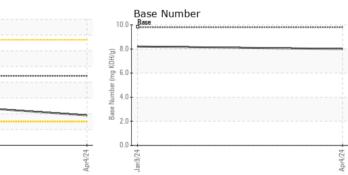






VISUAL		method			history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.8	
GRAPHS						





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 893 - OK East Hauling Sample No. : GFL0118487 2100 Lilly Street Received : 12 Apr 2024 Lab Number : 06148036 Tested : 15 Apr 2024 Seminole, OK US 74868 Unique Number : 10978114 Diagnosed : 15 Apr 2024 - Wes Davis Test Package : FLEET Contact: Roger Barlow Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rbarlow@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (405)204-6183 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Jan 9/24

Report Id: GFL893 [WUSCAR] 06148036 (Generated: 04/15/2024 18:08:17) Rev: 1

Contact/Location: Roger Barlow - GFL893