

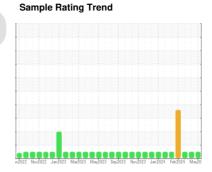
# **OIL ANALYSIS REPORT**



(00691H8) 811055 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 GAL)





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

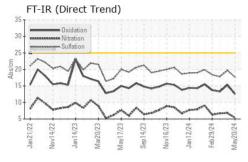
## **Fluid Condition**

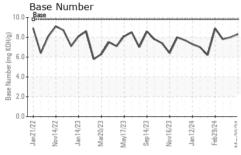
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

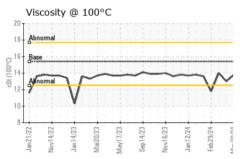
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098927	GFL0098889	GFL0099015
Sample Date		Client Info		20 May 2024	30 Apr 2024	21 Mar 2024
Machine Age	hrs	Client Info		7010	6851	6384
Oil Age	hrs	Client Info		7010	3826	3826
Oil Changed		Client Info		Diff Oil	Diff Oil	Diff Oil
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	5	15	9
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	2	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	6	1
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	36	<1
Tin	ppm	ASTM D5185m	>15	<1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	37	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	51	68	57
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	856	853	962
Calcium	ppm	ASTM D5185m	1070	969	1113	1124
Phosphorus	ppm	ASTM D5185m	1150	947	972	1022
Zinc	ppm	ASTM D5185m	1270	1128	1120	1289
Sulfur	ppm	ASTM D5185m	2060	3203	2920	3788
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	12	3
Sodium	ppm	ASTM D5185m		2	1	2
Potassium	ppm	ASTM D5185m	>20	3	15	2
INIEDA DED		method	limit/base	current	history1	history2
INFRA-RED						
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.4
	% Abs/cm	*ASTM D7844 *ASTM D7624	>4 >20	0.3 5.4	0.2 6.8	0.4 6.7
Soot %			>20			
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	5.4	6.8	6.7
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	5.4 17.7	6.8 19.7	6.7 17.8



# **OIL ANALYSIS REPORT**



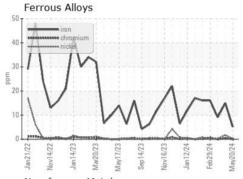


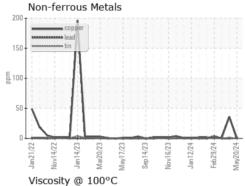


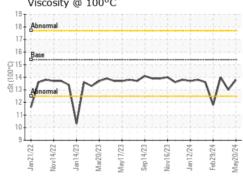
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

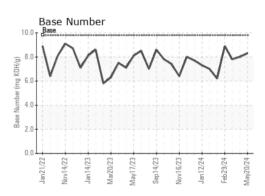
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.0	14.0

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06193745

: GFL0098927 Unique Number : 11050497

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024

**Tested** : 30 May 2024

Diagnosed : 30 May 2024 - Wes Davis

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT robert.thibault@gflenv.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (931)552-7276 F: (931)572-9674

Test Package : FLEET To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL084 [WUSCAR] 06193745 (Generated: 05/30/2024 15:57:38) Rev: 1

Submitted By: GFL084,GFL842,GFL844,GFL846 - ROBERT THIBAULT