

# **OIL ANALYSIS REPORT**

(10A80900) 410017

Diesel Engine

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

Sample Rating Trend



## 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

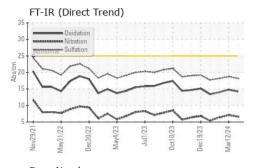
## **Fluid Condition**

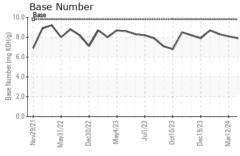
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

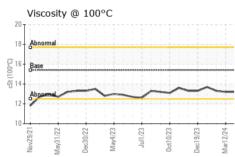
SAMPLE INFORI	MOLTAN.	method	limit/base	current	history1	history2
	VIATION		IIIIIIVDase			•
Sample Number		Client Info		GFL0121242	GFL0099290	GFL0105545
Sample Date	la una	Client Info		12 Jun 2024	12 Mar 2024	15 Feb 2024
Machine Age	hrs	Client Info		0 600	0	0
Oil Age	hrs	Client Info				-
Oil Changed Sample Status		Client Info		Changed NORMAL	Not Changd NORMAL	Not Changd NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
	ION					•
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	>90	5	7	7
Chromium	ppm	ASTM D5185m		0	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		6	4	4
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m		<1	4	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	7	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	61	67
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	966	985	1236
Calcium	ppm	ASTM D5185m	1070	1144	1144	1394
Phosphorus	ppm	ASTM D5185m	1150	1126	1048	1249
Zinc	ppm	ASTM D5185m	1270	1312	1227	1643
Sulfur	ppm	ASTM D5185m	2060	3731	3581	3957
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		5	3	4
Potassium	ppm	ASTM D5185m	>20	15	10	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.1	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.7	18.2
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.8	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.1	8.3



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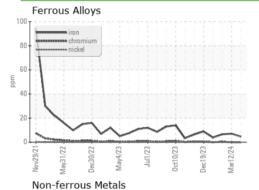


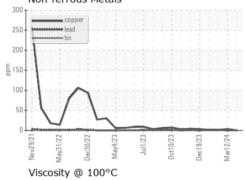


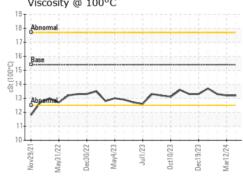
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

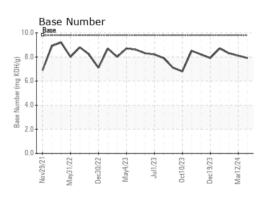
FLUID PROP	ERIIES	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.2	13.3

## **GRAPHS**













Certificate 12367

Sample No.

: GFL0121242 Lab Number : 06215421 Unique Number : 11088285 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** : 21 Jun 2024

Diagnosed : 21 Jun 2024 - Wes Davis

GFL Environmental - 846 - Mayfield Hauling 3426 State Route 45 Mayfield, KY

US 42066 Contact: Jack Lindsey jack.lindsey@gflenv.com T: (270)970-3690

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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)

Report Id: GFL846 [WUSCAR] 06215421 (Generated: 06/21/2024 12:10:09) Rev: 1

Contact/Location: Jack Lindsey - GFL846