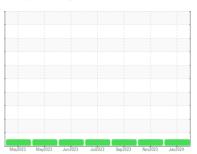


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









PETRO CANADA DURON SHP 15W40 (--- 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

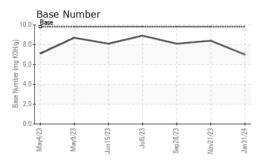
## **Fluid Condition**

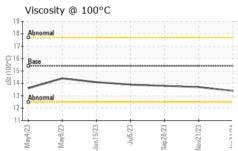
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		May2023	mayeoeo ouneoeo	Jul2023 Sep2023 Nov2023	Jan2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0045541	GFL0101374	GFL0086535
Sample Date		Client Info		31 Jan 2024	21 Nov 2023	28 Sep 2023
Machine Age	hrs	Client Info		4482	4083	3289
Oil Age	hrs	Client Info		2991	3785	2991
Oil Changed		Client Info		Changed	Not Changd	N/A
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	11	2	8
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	5	0	3
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	4	<1	3
Tin	ppm	ASTM D5185m		1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	2	<1
Barium	ppm	ASTM D5185m	0	13	0	0
Molybdenum	ppm	ASTM D5185m	60	65	54	67
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	968	923	1082
Calcium	ppm	ASTM D5185m	1070	1090	1028	1113
Phosphorus	ppm	ASTM D5185m	1150	975	1047	1132
Zinc	ppm	ASTM D5185m	1270	1246	1160	1413
Sulfur	ppm	ASTM D5185m	2060	3238	2798	3469
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	4	8
Sodium	ppm	ASTM D5185m		0	3	4
Potassium	ppm	ASTM D5185m	>20	9	2	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.4	6.2	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.7	19.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	14.3	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0	8.4	8.1
(=11)	39					



# **OIL ANALYSIS REPORT**

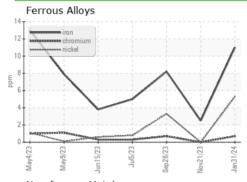


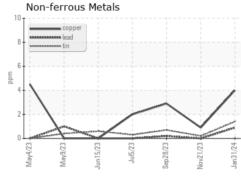


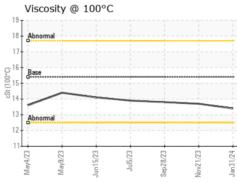
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

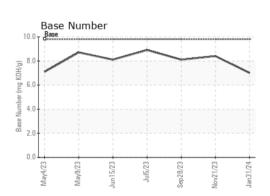
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.7	13.8

## **GRAPHS**













Certificate L2367

Laboratory

Sample No.

: GFL0045541 Lab Number : 06086524 Unique Number: 10873969 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 **Tested** 

: 13 Feb 2024 Diagnosed : 13 Feb 2024 - Don Baldridge

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com

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: GFL654 [WUSCAR] 06086524 (Generated: 02/13/2024 19:12:55) Rev: 1

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