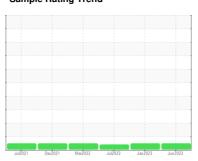


# **OIL ANALYSIS REPORT**

### **Sample Rating Trend**









PETRO CANADA DURON SHP 15W40 (40 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

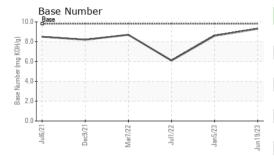
## **Fluid Condition**

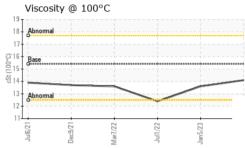
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

) OF WELL THE PIC	o GAL)	Jul2021	Dec2021 Mar2022	. Julz022 Janz023	Jun2023	
SAMPLE INFORT	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084891	GFL0064033	GFL0055144
Sample Date		Client Info		19 Jun 2023	05 Jan 2023	01 Jul 2022
Machine Age	hrs	Client Info		14058	13894	13400
Oil Age	hrs	Client Info		14058	13400	12709
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	4	8	11
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	2	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	2	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	56	52
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	951	860	851
Calcium	ppm	ASTM D5185m	1070	1068	1034	972
Phosphorus	ppm	ASTM D5185m	1150	1012	940	928
Zinc	ppm	ASTM D5185m	1270	1235	1170	1160
Sulfur	ppm	ASTM D5185m	2060	3734	2973	3077
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	4	3
Sodium	ppm	ASTM D5185m		3	8	3
Potassium	ppm	ASTM D5185m	>20	4	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.9	7.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.6	21.4
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.5	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	8.6	6.1



# **OIL ANALYSIS REPORT**

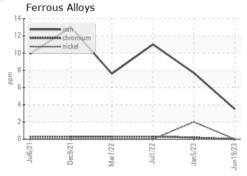


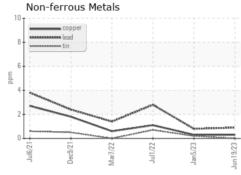


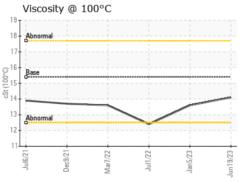
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

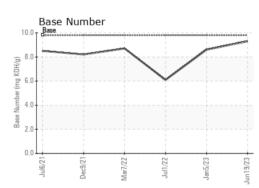
FLUID PROPI	EHILO	memoa			History	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.6	<u> </u>

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0084891 : 05897184 : 10552994

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Jul 2023 Diagnosed : 13 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West 39000 Van Born Rd Wayne, MI US 48184 Contact: Belal Dgheish

bdgheish@gflenv.com T: (734)714-2340

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: GFL410 [WUSCAR] 05897184 (Generated: 07/13/2023 15:37:32) Rev: 1

Submitted By: Belal Dgheish