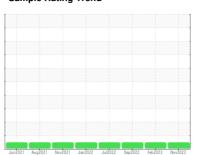


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









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

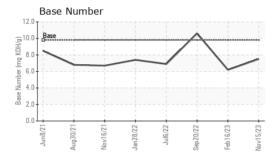
## **Fluid Condition**

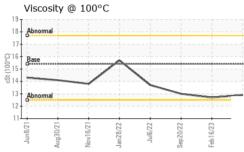
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

,		JUNZUZI A	ug2021 Nov2021 Jan202	2 Jul2022 Sep2022 Feb2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101522	GFL0073843	WC0647877
Sample Date		Client Info		15 Nov 2023	16 Feb 2023	20 Sep 2022
Machine Age	hrs	Client Info		15730	13844	0
Oil Age	hrs	Client Info		13844	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>80	21	45	15
Chromium	ppm	ASTM D5185m	>5	1	2	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	_	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	3	5	30
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm		>150	2	4	39
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m	/5	<1	0	<1
Cadmium		ASTM D5185m		0	0	0
	ppm			<u> </u>		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	43
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	58	53
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	891	898	690
Calcium	ppm	ASTM D5185m	1070	1007	1054	1259
Phosphorus	ppm	ASTM D5185m	1150	949	881	713
Zinc	ppm	ASTM D5185m	1270	1204	1172	881
Sulfur	ppm	ASTM D5185m	2060	2518	2979	2782
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	5	8
Sodium	ppm	ASTM D5185m		6	9	3
Potassium	ppm	ASTM D5185m	>20	1	1	76
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.8	11.8	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	22.5	22.1
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	21.0	19.5
Oxidation Base Number (BN)		*ASTM D7414 ASTM D2896		17.8 7.5	21.0 6.2	19.5 10.6



# **OIL ANALYSIS REPORT**

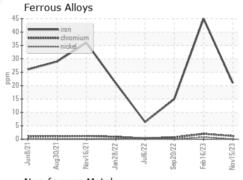


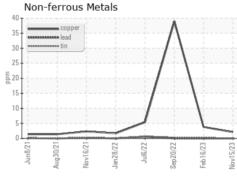


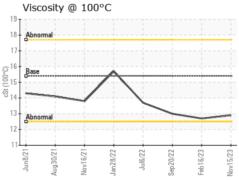
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

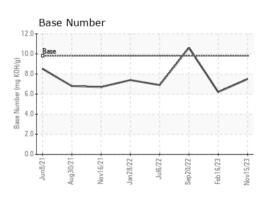
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	12.7	13.0	

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

: 06010492 Unique Number : 10749636 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0101522 Received

: 17 Nov 2023 Diagnosed : 17 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak

fwolak@gflenv.com T: (586)825-9514

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)