



## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC	C TEST	RESULT	S			
Sample Status				ATTENTION	ATTENTION	NORMAL
Visc @ 100°C	cSt	ASTM D445	12.00	<u> </u>	<b>1</b> 4.6	13.7

Customer Id: GFL654 Sample No.: GFL0091810 Lab Number: 05967334 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

## **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## **HISTORICAL DIAGNOSIS**

## 05 Jun 2023 Diag: Don Baldridge

VISCOSITY



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

#### 03 Jun 2023 Diag: Wes Davis



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The

23 Feb 2023 Diag: Wes Davis

condition of the oil is suitable for further service.

#### NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





view report

## Report Id: GFL654 [WUSCAR] 05967334 (Generated: 10/05/2023 08:27:06) Rev: 1



## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 412009 Component

**Diesel Engine** Fluid

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0091810	GFL0074357	GFL007435
No corrective action is recommended at this time.	Sample Date		Client Info		29 Sep 2023	05 Jun 2023	03 Jun 2023
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		3573	2927	2919
Wear	Oil Age	hrs	Client Info		3573	0	0
All component wear rates are normal.	Oil Changed		Client Info		Not Changd	Not Changd	Changed
Contamination	Sample Status				ATTENTION	ATTENTION	NORMAL
There is no indication of any contamination in the oil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
The oil viscosity is higher than normal. The BN	Glycol		WC Method		NEG	NEG	NEG
result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	11	2	10
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	2	0	3
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	5	<1	3
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	1	<1	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m	-	0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	2	<1	4	4
	Barium	maa	ASTM D5185m	0	0	0	0
	Molvbdenum	ppm	ASTM D5185m	50	63	58	61
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	950	948	978	961
	Calcium	nnm	ASTM D5185m	1050	1043	1062	1179
	Phoenhorue	nnm	ASTM D5185m	995	1043	1014	1004
	Zinc	ppm	ASTM D5195m	1180	1034	1257	1004
	Sulfur	ppm	ASTM D5185m	2600	3247	3737	3560
			method	Limit/baco	JZ41	hietonut	history
	Silicon	007	ASTM DE195m	~25	6	A	A HISTORY2
	Solium	ppm	AGTM DE105m	>20	2	4	2
	Potassium	ppm	ASTM DE185m	>20	2	-1	6
	r ulassiulli	μμιι		>20	5	<1	U
	INFRA-RED	24	method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.5	0.1	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	5.5	8.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	17.7	20.0
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	13.3	15.7
	Base Number (BN)	ma KOH/a	ASTM D2896		7.6	9.5	7.7



# **OIL ANALYSIS REPORT**

Ferrous Alloys





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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	<b>1</b> 4.1	<b>1</b> 4.6	13.7
GRAPHS						





Certificate L2367 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)

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