

PROBLEM SUMMARY

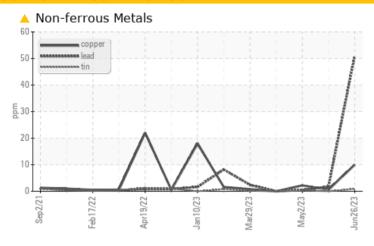
Sample Rating Trend **WEAR**

741004-310093

Component **Diesel Engine**

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS								
Sample Status		ABNORMAL	NORMAL	NORMAL				
Lead	ppm	ASTM D5185m	>45	<u>▲</u> 51	2	<1		

Customer Id: GFL856 Sample No.: GFL0084597 Lab Number: 05887355 Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@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

19 Jun 2023 Diag: Don Baldridge

NORMAL



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 condition of the oil is suitable for further service.



02 May 2023 Diag: Wes Davis

NORMAL



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 condition of the oil is suitable for further service.



24 Apr 2023 Diag: Wes Davis

NORMAL



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 condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

mg/2021 Fed/2022 App/2022 Jun/2023 Marg/2023 Marg/2023 Jun/2023

WEAR

741004-310093

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

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

🔔 Wear

The lead level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

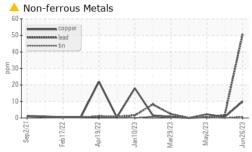
Fluid Condition

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

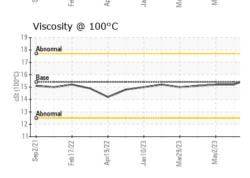
IAL)		Sep 2021	Feb2022 Apr2022	Jan 2023 Mar 2023 May 2023	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0084597	GFL0084743	GFL0078191
Sample Date		Client Info		26 Jun 2023	19 Jun 2023	02 May 2023
Machine Age	mls	Client Info		0	76709	118114
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>110	13	9	10
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Гitanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	1	<1
_ead	ppm	ASTM D5185m	>45	<u></u> ▲ 51	2	<1
Copper	ppm	ASTM D5185m		10	<1	2
Гin	ppm	ASTM D5185m	>4	<1	0	<1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	le le	method	limit/base	-	history 1	history 2
Boron	nnm	ASTM D5185m	0	17	14	16
Barium	ppm	ASTM D5185m	0	0	0	0
	ppm			_		
Molybdenum	ppm	ASTM D5185m	60	55	54	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	590	638	620
Calcium	ppm	ASTM D5185m	1070	1669	1763	1741
Phosphorus	ppm	ASTM D5185m	1150	771	786	789
Zinc	ppm	ASTM D5185m	1270	984	1033	1043
Sulfur	ppm	ASTM D5185m	2060	2585	2929	2822
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>30	6	4	4
Sodium	ppm	ASTM D5185m		8	6	6
Potassium	ppm	ASTM D5185m	>20	1	<1	0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.8	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	20.8	20.7
FLUID DEGRAI	NOITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.4	18.3	18.2
Base Number (BN)	mg KOH/g			6.6	6.8	5.2
Dasc Hamber (DIV)	mg Normy	7.0 TW D2000	0.0	0.0	0.0	0.2



OIL ANALYSIS REPORT



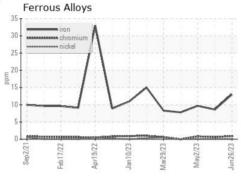
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	Base	Numb	er				
19/11	T						
har fmu Kl	8.0	_	\ /	\ /		/	
Dana Muna	4.0						
	0.0	- 22	22	23	23	23	-
	Sep2	b17/	or19,	m10)	ar29/	lay2	

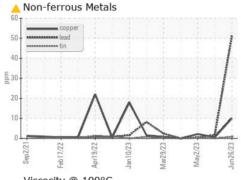


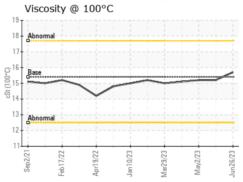
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

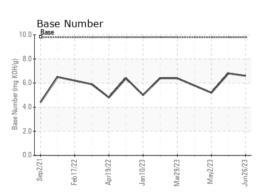
FLUID PROPE	ERITES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	15.7	15.2	15.2

GRAPHS













Certificate L2367

Test Package : FLEET

Laboratory Sample No. Lab Number

: GFL0084597 : 05887355 Unique Number : 10537838

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Jun 2023 Diagnosed Diagnostician : Sean Felton

: 05 Jul 2023

8515 Highway 6 South Houston, TX US 77083 Contact: KEITH ROWALD

krowald@gflenv.com T: (303)641-3906

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: GFL856 [WUSCAR] 05887355 (Generated: 07/05/2023 11:24:05) Rev: 1

Contact/Location: GFL856, 859, 864 - KEITH ROWALD - GFL856