

PROBLEM SUMMARY

Sample Rating Trend

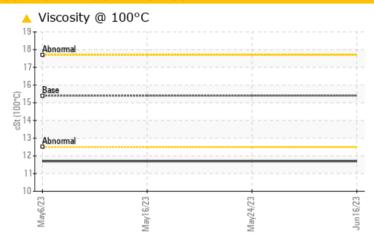
VISCOSITY

713027

Component **Diesel Engine**

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION	ATTENTION	ATTENTION		
Visc @ 100°C	cSt	ASTM D445	15.4	11.7	<u>▲</u> 11.7	<u>▲</u> 11.7		

Customer Id: GFL821 Sample No.: GFL0065452 Lab Number: 05882937 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

24 May 2023 Diag: Sean Felton

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 lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



16 May 2023 Diag: Don Baldridge

VISCOSITY



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



06 May 2023 Diag: Angela Borella

VISCOSITY



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





OIL ANALYSIS REPORT

Sample Rating Trend

May(2023 May(2023 Jon(2023

VISCOSITY



713027
Component

Diesel Engine

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

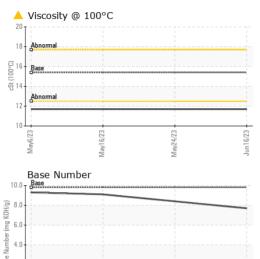
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

May2023 May2023 May2023 Jun2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0065452	GFL0076799	GFL0076844
Sample Date		Client Info		16 Jun 2023	24 May 2023	16 May 2023
Machine Age	hrs	Client Info		438	287	139
Oil Age	hrs	Client Info		438	200	139
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.8
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	29	21	15
Chromium	ppm	ASTM D5185m	>20	1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	3	4
Lead	ppm	ASTM D5185m	>40	1	0	0
Copper	ppm	ASTM D5185m	>330	15	14	14
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	32	39	49
Barium	ppm	ASTM D5185m	0	8	1	0
Molybdenum	ppm	ASTM D5185m	60	46	46	48
Manganese	ppm	ASTM D5185m	0	5	5	4
Magnesium	ppm	ASTM D5185m	1010	829	857	836
Calcium	ppm	ASTM D5185m	1070	1230	1216	1246
Phosphorus	ppm	ASTM D5185m	1150	693	744	726
Zinc	ppm	ASTM D5185m	1270	871	910	889
Sulfur	ppm	ASTM D5185m	2060	2627	2803	2561
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	12	12
Sodium	ppm	ASTM D5185m		6	6	9
Potassium	ppm	ASTM D5185m	>20	6	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624		11.3	10.3	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.2	21.0
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	20.3	19.3
Base Number (BN)	mg KOH/g			7.7	8.4	9.1
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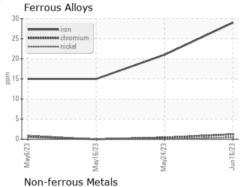
OIL ANALYSIS REPORT

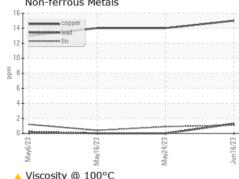


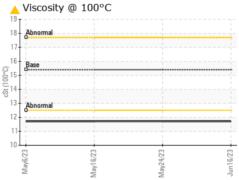
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

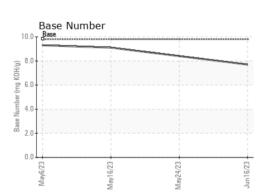
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Visc @ 100°C	cSt	ASTM D445	15.4	11.7	▲ 11.7	<u></u> 11.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10533420 Test Package : FLEET

: GFL0065452 : 05882937

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

: 26 Jun 2023 : 28 Jun 2023 Diagnostician : Don Baldridge GFL Environmental - 821 - Ozarks Hauling

33924 Olath Drive Lebanon, MO US 65536

Contact: Landen Johnson landen.johnson@gflenv.com T: (417)664-0010

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: GFL821 [WUSCAR] 05882937 (Generated: 10/18/2023 14:02:59) Rev: 1

Contact/Location: GFL821, GFL824 and GFL829 - Landen Johnson - GFL821