

OIL ANALYSIS REPORT

(BC85783) 211025

Component **Diesel Engine**

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

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sample only)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

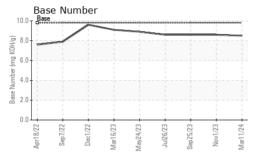
Fluid Condition

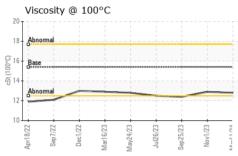
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	<i>A</i> OLTAN	method	limit/base	current	history1	history2
	W/ TION			GFL0101616	GFL0094844	GFL0088288
Sample Number		Client Info				
Sample Date				11 Mar 2024	01 Nov 2023	25 Sep 2023
Machine Age	mls	Client Info		84717	71906	68457
Oil Age	mls	Client Info		4323	3499	6015
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	10	13	13
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		1	1	4
Lead	ppm	ASTM D5185m	>25	0	1	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m		<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
	PPIII		11 12 12			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	7	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	55	58	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	857	899	881
Calcium	ppm	ASTM D5185m	1070	940	993	1014
Phosphorus	ppm	ASTM D5185m	1150	968	959	955
Zinc	ppm	ASTM D5185m	1270	1125	1232	1167
Sulfur	ppm	ASTM D5185m	2060	3242	3097	2895
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	10	11
Sodium	ppm	ASTM D5185m		<1	<1	2
Potassium	ppm	ASTM D5185m	>20	0	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.2	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	17.9	18.1
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	14.1	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.6	8.6
POSE MUNICIPALITY	IIIU KUI I/U	MOTIVI DE030	5.0	0.5	0.0	0.0



OIL ANALYSIS REPORT

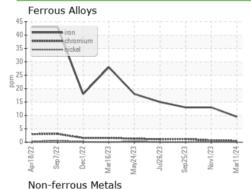


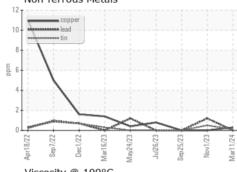


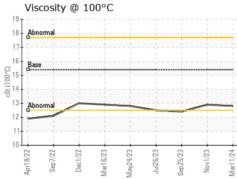
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

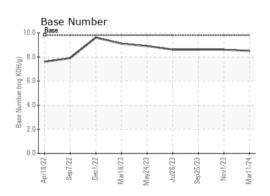
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.9	12.4	

GRAPHS













Laboratory Sample No.

: GFL0101616 Lab Number : 06117675 Unique Number : 10926508

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Mar 2024 **Tested** : 14 Mar 2024

Diagnosed : 15 Mar 2024 - Don Baldridge

GFL Environmental - 625 - Harrison Hauling 4102 Industrial Pkwy

Harrison, MI US 48625 Contact: Glenda Standen

gstanden@gflenv.com

Test Package : FLEET 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)

T:

F: