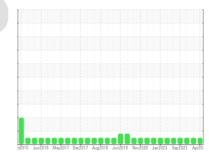


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



Machine Id
8121
Component
Diesel Engine

## PETRO CANADA DURON SHP 15W40 (8 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.

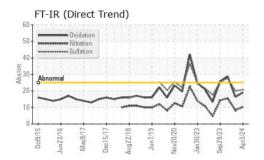
## **Fluid Condition**

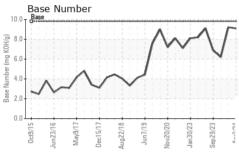
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

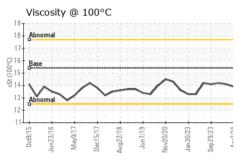
· ·/						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112779	GFL0101283	GFL0091758
Sample Date		Client Info		03 Apr 2024	13 Jan 2024	19 Oct 2023
Machine Age	mls	Client Info		241033	15851	15674
Oil Age	mls	Client Info		179209	0	0
Oil Changed		Client 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	>100	20	6	45
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>4	1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	8	<1	2
Lead	ppm	ASTM D5185m	>40	4	<1	4
Copper	ppm	ASTM D5185m	>330	1	2	2
Tin	ppm	ASTM D5185m	>15	2	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	22	0	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	55	53
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	1001	868	872
Calcium	ppm	ASTM D5185m	1070	1163	967	976
Phosphorus	ppm	ASTM D5185m	1150	1062	997	859
Zinc	ppm	ASTM D5185m	1270	1275	1152	1140
Sulfur	ppm	ASTM D5185m	2060	3520	2764	2443
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	3	8
Sodium	ppm	ASTM D5185m		8	2	9
Potassium	ppm	ASTM D5185m	>20	4	0	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.8	1.9
Nitration	Abs/cm	*ASTM D7624	>20	10.3	8.3	15.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.1	27.6
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	16.4	28.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	9.2	6.2



## **OIL ANALYSIS REPORT**



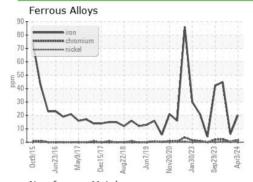


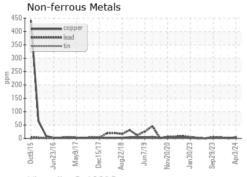


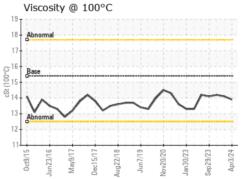
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

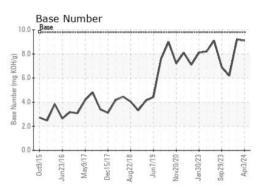
FLUID PROPI	ERIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.1	14.2

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Unique Number : 10965315

: GFL0112779 Lab Number : 06140507

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

: 05 Apr 2024 **Tested** : 08 Apr 2024 Diagnosed : 08 Apr 2024 - Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Jimmy Mayes

jmayes@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)

Report Id: GFL654 [WUSCAR] 06140507 (Generated: 04/08/2024 09:35:34) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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