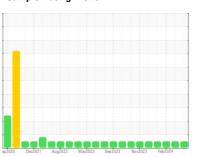


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 721033-310086

Component

Diesel Engine

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

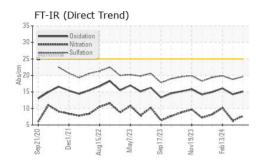
## **Fluid Condition**

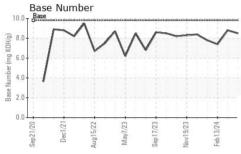
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

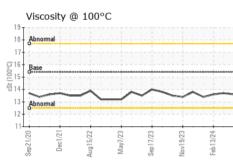
		epzozo De	czożi Augzoże Maya	023 Sep2023 Nov2023 F	eb2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0102989	GFL0102969	GFL0074798	
Sample Date		Client Info		02 Apr 2024	10 Mar 2024	13 Feb 2024	
Machine Age	hrs	Client Info		8522	8351	8189	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
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	6	5	13	
Chromium	ppm	ASTM D5185m	>20	0	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	5	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m	>330	<1	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	0	
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	0	65	74	10	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	74	75	67	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	866	926	887	
Calcium	ppm	ASTM D5185m	1070	1158	1222	1081	
Phosphorus	ppm	ASTM D5185m	1150	994	988	913	
Zinc	ppm	ASTM D5185m	1270	1157	1224	1218	
Sulfur	ppm	ASTM D5185m	2060	3333	3645	2941	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	3	5	
Sodium	ppm	ASTM D5185m		5	3	4	
Potassium	ppm	ASTM D5185m	>20	2	1	5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.3	10.2	
Sulfation	Abs/.1mm	*ASTM D7415		19.6	18.8	19.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	14.3	16.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.8	7.4	
= 1.00 . (2.7.00)	99		3.0	0.0	0.0		



# **OIL ANALYSIS REPORT**



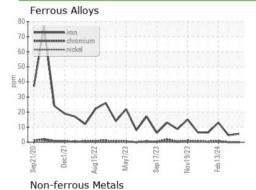


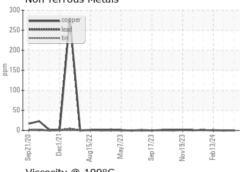


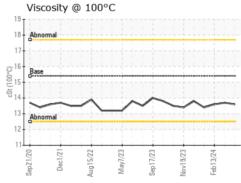
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

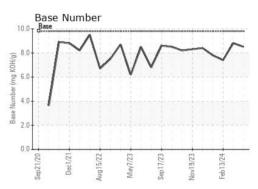
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	13.6

## **GRAPHS**











Certificate L2367

Laboratory Sample No.

Lab Number : 06137976 Unique Number: 10962784

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0102989

Received **Tested** Diagnosed Test Package : FLEET

: 03 Apr 2024 : 04 Apr 2024

: 04 Apr 2024 - Wes Davis

GFL Environmental - 816 - WCA of South Arkansas

3083 Smackover Hwy El Dorado, AR US 71730

Contact: Mike Howell mike.howell@gflenv.com

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: GFL816 [WUSCAR] 06137976 (Generated: 04/04/2024 17:45:19) Rev: 1

Submitted By: Nicole Walls

T:

F: