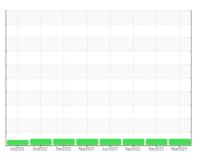


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 912056

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 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

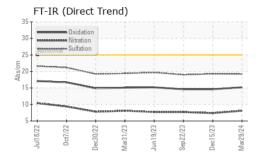
## **Fluid Condition**

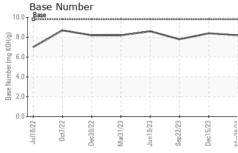
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

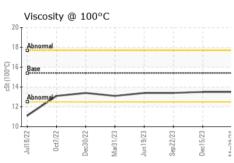
JAL)		Juizuzz	JCTZUZZ DECZUZZ Marzu	iza Junzuza Sepzuza Deczuz.	Warzuz4		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0100426	GFL0100422	GFL0055203	
Sample Date		Client Info		29 Mar 2024	15 Dec 2023	22 Sep 2023	
Machine Age	hrs	Client Info		4092	69435	3019	
Oil Age	hrs	Client Info		576	497	572	
Oil Changed		Client Info		Changed	Changed	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	>110	10	7	11	
Chromium	ppm	ASTM D5185m	>4	<1	0	0	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	7	3	<1	
Lead	ppm	ASTM D5185m	>45	0	0	<1	
Copper	ppm	ASTM D5185m	>85	<1	1	<1	
Tin	ppm	ASTM D5185m	>4	<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	18	12	8	
Barium	ppm	ASTM D5185m	0	0	<1	0	
Molybdenum	ppm	ASTM D5185m	60	66	64	62	
Manganese	ppm	ASTM D5185m	0	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	938	915	995	
Calcium	ppm	ASTM D5185m	1070	1117	1078	1216	
Phosphorus	ppm	ASTM D5185m	1150	891	1067	1069	
Zinc	ppm	ASTM D5185m	1270	1177	1224	1342	
Sulfur	ppm	ASTM D5185m	2060	3225	2940	3978	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	2	3	4	
Sodium	ppm	ASTM D5185m		<1	3	3	
Potassium	ppm	ASTM D5185m	>20	10	2	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.4	7.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.3	19.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.6	14.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.4	7.8	



# **OIL ANALYSIS REPORT**



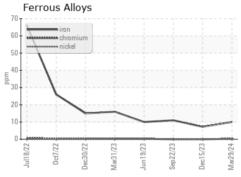




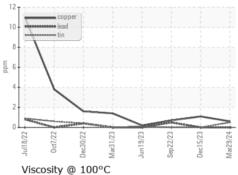
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

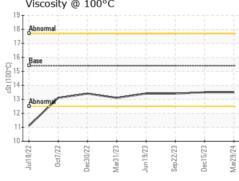
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.5	13.4

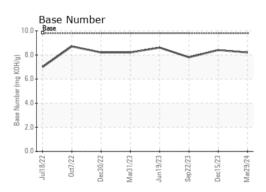
## **GRAPHS**















Certificate 12367

Sample No.

: GFL0100426 Lab Number : 06140485 Unique Number : 10965293 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Apr 2024 **Tested** : 08 Apr 2024 Diagnosed

: 08 Apr 2024 - Wes Davis

GFL Environmental - 900 - Antigo HC 1715 Deleglise St. Antigo, WI

US 54409 Contact: Kirk Koss kirk.koss@gflenv.com T: (715)571-2784

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: GFL900 [WUSCAR] 06140485 (Generated: 04/08/2024 09:08:11) Rev: 1