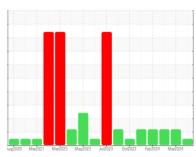


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **523004-704** 

Component

Diesel Engine

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

## 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

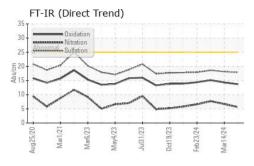
### **Fluid Condition**

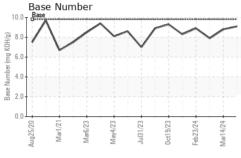
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

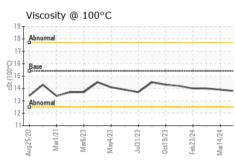
-1n <i>)</i>		Augzuzu Mar	zuzi marzuza mayzuza	JUI2023 UCI2023 HBD2024	Marzuz4			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0091892	GFL0112725	GFL0112795		
Sample Date		Client Info		30 May 2024	14 Mar 2024	29 Feb 2024		
Machine Age	hrs	Client Info		22336	22336	22336		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd		
Sample Status				NORMAL	ATTENTION	ATTENTION		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>3.0	<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	>120	<1	8	9		
Chromium	ppm	ASTM D5185m	>20	0	0	0		
Nickel	ppm	ASTM D5185m	>5	<1	2	<1		
Titanium	ppm	ASTM D5185m	>2	0	0	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	2	3	3		
Lead	ppm	ASTM D5185m	>40	0	<1	0		
Copper	ppm	ASTM D5185m	>330	0	<1	4		
Tin	ppm	ASTM D5185m	>15	0	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	2	2	0		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	54	71	64		
Manganese	ppm	ASTM D5185m	0	<1	0	<1		
Magnesium	ppm	ASTM D5185m	1010	907	1071	950		
Calcium	ppm	ASTM D5185m	1070	985	1201	1032		
Phosphorus	ppm	ASTM D5185m	1150	1021	1184	1027		
Zinc	ppm	ASTM D5185m	1270	1186	1418	1228		
Sulfur	ppm	ASTM D5185m	2060	3548	4273	2880		
CONTAMINANTS method limit/base current history1 history2								
Silicon	ppm	ASTM D5185m	>25	5	6	4		
Sodium	ppm	ASTM D5185m		3	19	11		
Potassium	ppm	ASTM D5185m	>20	7	67	47		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.7	7.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	18.1	18.6		
FLUID DEGRADATION method limit/base current history1 history2								
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	14.3	15.1		
Base Number (BN)	mg KOH/g	ASTM D2896		9.1	8.8	7.9		
(511)				<u> </u>	0.0			

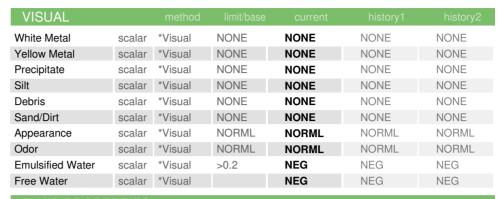


# **OIL ANALYSIS REPORT**



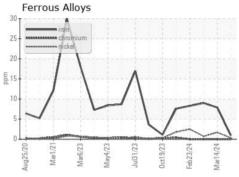


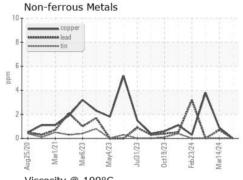


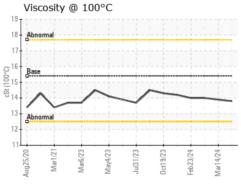


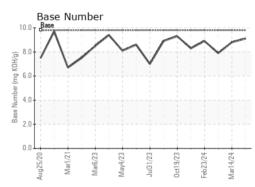
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	14.0

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0091892 Lab Number : 06198628 Unique Number : 11060751 Test Package : FLEET

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

Received : 03 Jun 2024 **Tested** : 04 Jun 2024 Diagnosed : 04 Jun 2024 - Wes Davis

11800 Lewis Road Chester, VA US 23831

Contact: Jimmy Mayes jmayes@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: GFL654 [WUSCAR] 06198628 (Generated: 06/04/2024 15:53:07) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

GFL Environmental - 654 - Richmond Hauling

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