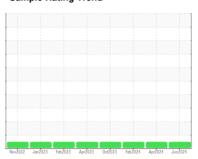


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



928045
Component
Diesel Engine

Machine Id

PETRO CANADA DURON SHP 15W40 (--- 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

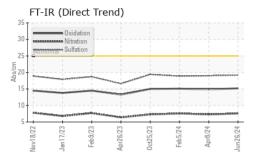
### **Fluid Condition**

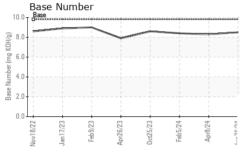
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

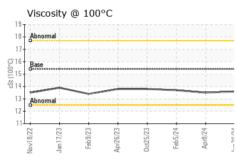
AAL)		NOVZUZZ S	Janzuza Feozuza Aprzu	ZS UCIZUZS FBDZUZ4 APIZUZ4	Jun2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0123770	GFL0112998	GFL0108423			
Sample Date		Client Info		26 Jun 2024	08 Apr 2024	05 Feb 2024			
Machine Age	mls	Client Info		176495	1620	1153			
Oil Age	mls	Client Info		176495	1620	1153			
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	3	3	9			
Chromium	ppm	ASTM D5185m	>4	<1	0	<1			
Nickel	ppm	ASTM D5185m	>2	0	0	<1			
Titanium	ppm	ASTM D5185m		<1	0	<1			
Silver	ppm	ASTM D5185m	>2	<1	0	<1			
Aluminum	ppm	ASTM D5185m	>25	2	2	2			
Lead	ppm	ASTM D5185m	>45	0	0	<1			
Copper	ppm	ASTM D5185m	>85	1	0	1			
Tin	ppm	ASTM D5185m	>4	0	0	<1			
Vanadium	ppm	ASTM D5185m		<1	0	0			
Cadmium	ppm	ASTM D5185m		0	0	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	4	2	1			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	61	57	66			
Manganese	ppm	ASTM D5185m	0	<1	0	<1			
Magnesium	ppm	ASTM D5185m	1010	977	930	1082			
Calcium	ppm	ASTM D5185m	1070	1129	1039	1170			
Phosphorus	ppm	ASTM D5185m	1150	977	1020	1084			
Zinc	ppm	ASTM D5185m	1270	1160	1190	1347			
Sulfur	ppm	ASTM D5185m	2060	3058	3159	3245			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>30	2	3	4			
Sodium	ppm	ASTM D5185m		4	0	0			
Potassium	ppm	ASTM D5185m	>20	0	<1	4			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.4			
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.3	7.6			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.0	18.9			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.9	15.1			
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	8.3	8.4			
	39								

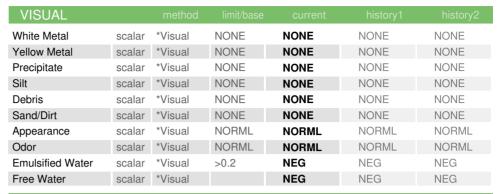


# **OIL ANALYSIS REPORT**



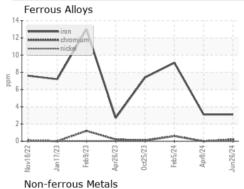


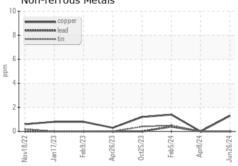


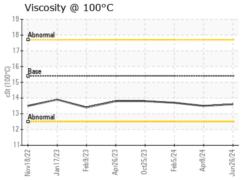


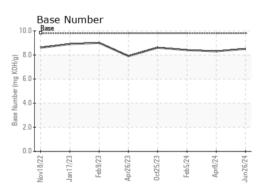
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.5	13.7	

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0123770 Lab Number : 06228333

Unique Number : 11111826 Test Package : FLEET

Received : 05 Jul 2024 **Tested** Diagnosed

: 08 Jul 2024 : 08 Jul 2024 - Wes Davis

GFL Environmental - 918 - Hartland HC

630 E Industrial Drive Hartland, WI US 53029

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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)

Submitted By: David McCall