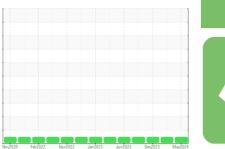


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **825010-1012** 

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

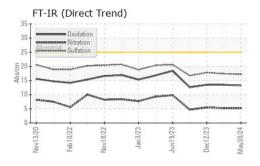
### **Fluid Condition**

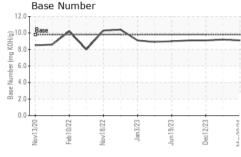
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

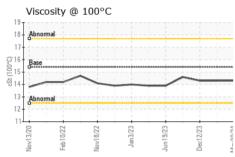
LIK)		Nov2020	Feb2022 Nov2022	Jan 2023 Jun 2023 Dec 2023	May2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0070924	GFL0070965	GFL0100163			
Sample Date		Client Info		30 May 2024	12 Mar 2024	12 Dec 2023			
Machine Age	hrs	Client Info		5844	5844	5787			
Oil Age	hrs	Client Info		66	66	56			
Oil Changed	0	Client Info		Changed	Not Changd	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
	ION		11 11 11						
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method		<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	4	2	10			
Chromium	ppm	ASTM D5185m	>20	0	0	0			
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	2	2	3			
Lead	ppm	ASTM D5185m	>40	0	0	0			
Copper	ppm	ASTM D5185m	>330	0	0	0			
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	10	2	5			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	62	59	58			
Manganese	ppm	ASTM D5185m	0	<1	<1	0			
Magnesium	ppm	ASTM D5185m	1010	959	949	899			
Calcium	ppm	ASTM D5185m	1070	1054	1057	1010			
Phosphorus	ppm	ASTM D5185m	1150	1068	1043	1018			
Zinc	ppm	ASTM D5185m	1270	1243	1236	1187			
Sulfur	ppm	ASTM D5185m	2060	3562	3516	3578			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>25	4	3	3			
Sodium	ppm	ASTM D5185m		2	<1	<1			
Potassium	ppm	ASTM D5185m	>20	0	0	2			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2			
Nitration	Abs/cm	*ASTM D7624	>20	5.2	5.2	5.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	17.4	17.8			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.5	13.5			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	9.2	9.1			
_ 300 (514)	9	52000	3.0	<b>U</b> 11	V				

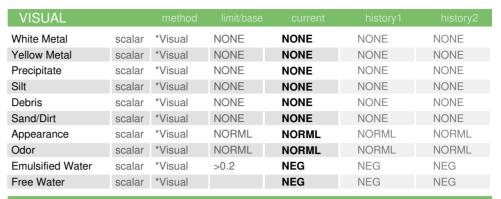


# **OIL ANALYSIS REPORT**



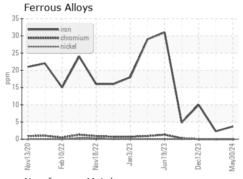


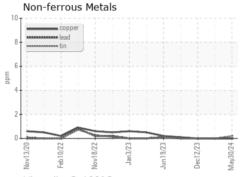


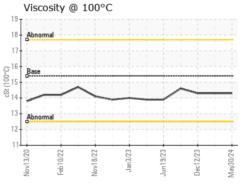


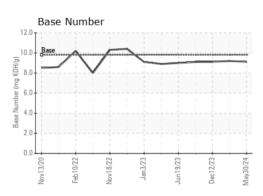
FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.3	14.3

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06196423 Unique Number : 11058546

: GFL0070924 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 **Tested** : 03 Jun 2024 Diagnosed

: 03 Jun 2024 - Wes Davis

GFL Environmental - 657 - Charlottesville Hauling

5498 Richmond Road Troy, VA US 22974

Contact: Brian Ulickas bulickas@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: GFL657 [WUSCAR] 06196423 (Generated: 06/03/2024 08:22:04) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

T:

F: