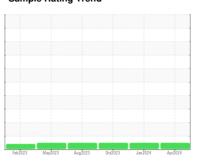


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
713021
Component

Component

Diesel Engine

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

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Serviced )

### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

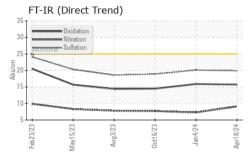
### **Fluid Condition**

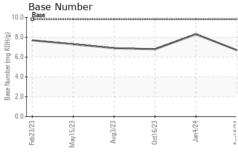
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

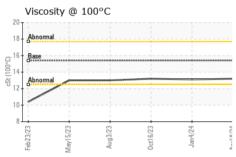
GAL)		Feb2023	May2023 Aug2023	Oct2023 Jan2024	Apr2024				
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0116279	GFL0094874	GFL0088296			
Sample Date		Client Info		18 Apr 2024	04 Jan 2024	16 Oct 2023			
Machine Age	hrs	Client Info		3398	2841	2296			
Oil Age	hrs	Client Info		580	621	557			
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	>100	16	11	14			
Chromium	ppm	ASTM D5185m	>20	1	<1	<1			
Nickel	ppm	ASTM D5185m	>4	4	2	1			
Titanium	ppm	ASTM D5185m		<1	0	<1			
Silver	ppm	ASTM D5185m	>3	<1	<1	<1			
Aluminum	ppm	ASTM D5185m	>20	3	1	1			
Lead	ppm	ASTM D5185m	>40	<1	<1	<1			
Copper	ppm	ASTM D5185m	>330	9	6	41			
Tin	ppm	ASTM D5185m	>15	2	1	1			
Vanadium	ppm	ASTM D5185m		<1	0	0			
Cadmium	ppm	ASTM D5185m		<1	0	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	2	4	<1			
Barium	ppm	ASTM D5185m		0	0	3			
Molybdenum	ppm	ASTM D5185m	60	62	61	59			
Manganese	ppm	ASTM D5185m		1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	891	953	854			
Calcium	ppm	ASTM D5185m		1071	1079	1017			
Phosphorus	ppm	ASTM D5185m	1150	1068	1127	891			
Zinc	ppm	ASTM D5185m	1270	1209	1323	1085			
Sulfur	ppm	ASTM D5185m	2060	3114	3111	2302			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	4	5			
Sodium	ppm	ASTM D5185m		2	3	4			
Potassium	ppm	ASTM D5185m	>20	4	3	2			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.6			
Nitration	Abs/cm	*ASTM D7624	>20	9.1	7.3	7.7			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.1	18.9			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.9	14.5			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	8.3	6.8			

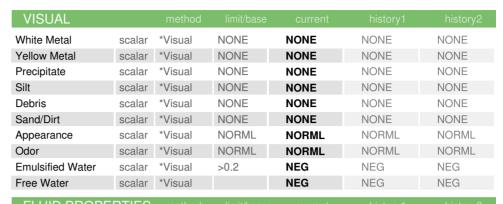


## **OIL ANALYSIS REPORT**



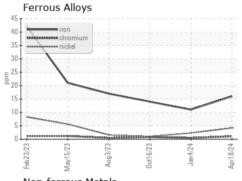


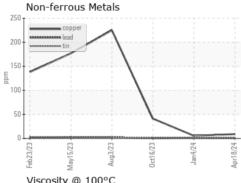


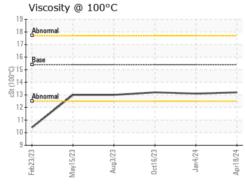


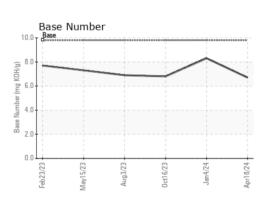
FLUID PROP	EHILO	method			History i	HIStoryZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.1	13.2

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0116279

Lab Number : 06156745 Unique Number : 10992168 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024

**Tested** : 23 Apr 2024 Diagnosed

: 24 Apr 2024 - Sean Felton

GFL Environmental - 625 - Harrison Hauling

4102 Industrial Pkwy Harrison, MI

US 48625 Contact: Glenda Standen gstanden@gflenv.com

\* - 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)

T:

F: