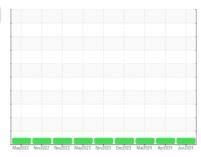


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



712028
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

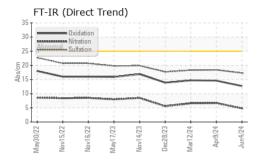
## **Fluid Condition**

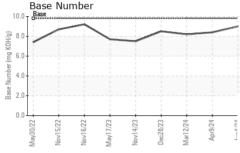
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

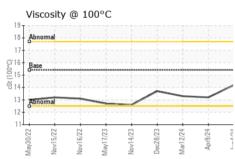
<i>-</i>									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0118485	GFL0101847	GFL0101900			
Sample Date		Client Info		04 Jun 2024	09 Apr 2024	12 Mar 2024			
Machine Age	hrs	Client Info		0	2545	2516			
Oil Age	hrs	Client Info		0	370	341			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
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	4	6	7			
Chromium	ppm	ASTM D5185m	>4	<1	0	<1			
Nickel	ppm	ASTM D5185m	>2	0	<1	0			
Titanium	ppm	ASTM D5185m		<1	<1	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>25	3	5	5			
Lead	ppm	ASTM D5185m	>45	<1	<1	0			
Copper	ppm	ASTM D5185m	>85	<1	0	<1			
Tin	ppm	ASTM D5185m	>4	<1	<1	<1			
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	<1	4	2			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	62	59	61			
Manganese	ppm	ASTM D5185m	0	0	<1	0			
Magnesium	ppm	ASTM D5185m	1010	943	973	921			
Calcium	ppm	ASTM D5185m	1070	1096	1108	1083			
Phosphorus	ppm	ASTM D5185m	1150	1154	1105	996			
Zinc	ppm	ASTM D5185m	1270	1244	1297	1223			
Sulfur	ppm	ASTM D5185m	2060	3473	3826	3154			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>30	3	4	5			
Sodium	ppm	ASTM D5185m		0	4	2			
Potassium	ppm	ASTM D5185m	>20	4	8	10			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2			
Nitration	Abs/cm	*ASTM D7624	>20	4.8	6.7	6.6			
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	18.4	18.3			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7	14.6	14.7			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	8.4	8.2			
(214)				<u> </u>					

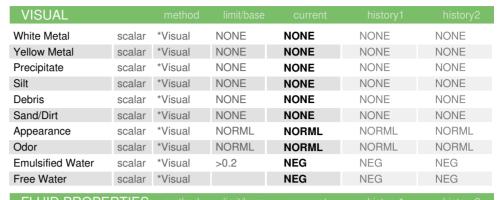


# **OIL ANALYSIS REPORT**



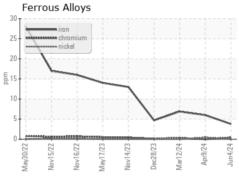


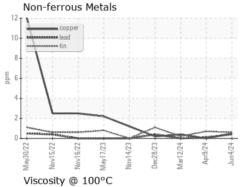


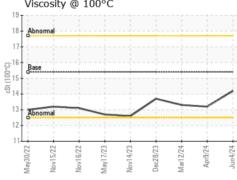


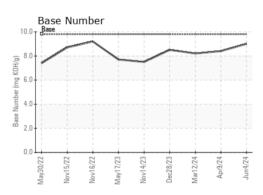
FLUID PROPI	ERIIES	method			History i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.2	13.3

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0118485 Lab Number : 06202313 Unique Number : 11069774

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

Received : 06 Jun 2024 **Tested** Diagnosed

: 10 Jun 2024 : 10 Jun 2024 - Wes Davis

GFL Environmental - 894 - Ada Hauling

1904 North Broadway, Suite D Ada, OK US 74820

Contact: Johnny Spurlock jspurlock@gflenv.com T: (405)664-4476

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) Report Id: GFL894 [WUSCAR] 06202313 (Generated: 06/10/2024 17:08:53) Rev: 1