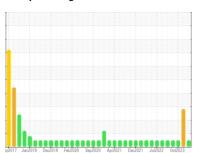


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
2671
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (11 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

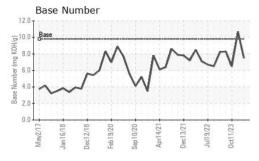
### **Fluid Condition**

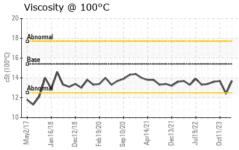
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)	N/2017 Jan/2018 Dec/2018 Feb/2020 Sep/2020 Apr/2021 Dec/2021 Juli2022 Oct/2023					
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0072073	GFL0072112	GFL0072156
Sample Date		Client Info		29 Feb 2024	11 Jan 2024	11 Oct 2023
Machine Age	hrs	Client Info		18635	18269	17091
Oil Age	hrs	Client Info		600	0	600
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<u>▲</u> 1.4	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	12	10	15
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	3	3
Lead	ppm	ASTM D5185m	>150	1	<1	3
Copper	ppm	ASTM D5185m	>90	<1	<1	1
Tin	ppm	ASTM D5185m	>5	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	<b>5</b> 6	8
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	63	43	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	952	524	923
Calcium	ppm		1070	1064	1474	1079
Phosphorus	ppm	ASTM D5185m	1150	1058	711	1059
Zinc	ppm	ASTM D5185m	1270	1255	902	1288
Sulfur	ppm	ASTM D5185m	2060	3382	2496	2886
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6	12	8
Sodium	ppm	ASTM D5185m		3	18	10
Potassium	ppm	ASTM D5185m	>20	<1	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.8	4.9	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.1	22.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	18.2	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	10.7	6.5



# **OIL ANALYSIS REPORT**

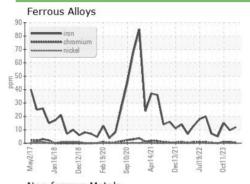


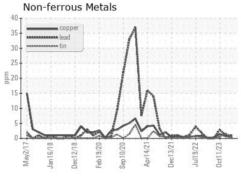


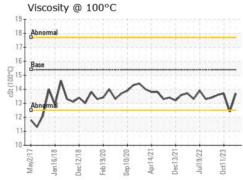
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

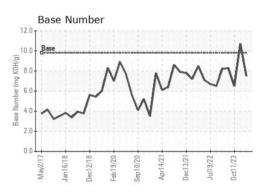
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	12.4	13.7

### **GRAPHS**













Laboratory Sample No. Lab Number : 06117690

: GFL0072073 Unique Number: 10926523

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

Diagnosed : 14 Mar 2024 - Wes Davis

GFL Environmental - 094 - Cedartown : 13 Mar 2024 : 14 Mar 2024

2097 Buchanan Highway

Cedartown, GA US 30125

Contact: WILLIAM FOSTER william.foster@gflenv.com T: (800)207-6618

Test Package : FLEET Certificate L2367 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)