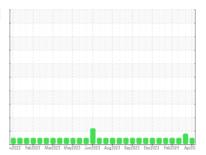


# **OIL ANALYSIS REPORT**

### Sample Rating Trend







Machine Id
913024
Component
Diesel Engine
Fluid
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

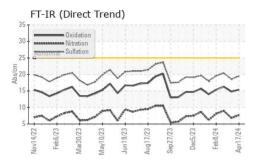
## **Fluid Condition**

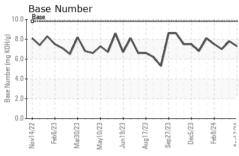
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

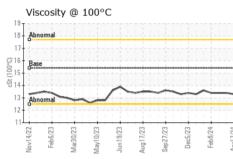
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111490	GFL0111456	GFL0068906
Sample Date		Client Info		17 Apr 2024	29 Mar 2024	01 Mar 2024
Machine Age	hrs	Client Info		4924	4793	4644
Oil Age	hrs	Client Info		280	149	563
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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
ron	ppm	ASTM D5185m	>120	10	108	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	6	0	4
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
_ead	ppm	ASTM D5185m	>40	<1	17	0
Copper	ppm	ASTM D5185m	>330	8	29	<1
Tin	ppm	ASTM D5185m	>15	<1	3	<1
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	<1	60
Manganese	ppm	ASTM D5185m	0	<1	2	<1
Magnesium	ppm	ASTM D5185m	1010	915	83	960
Calcium	ppm	ASTM D5185m	1070	1030	3375	1072
Phosphorus	ppm	ASTM D5185m	1150	1035	985	974
Zinc	ppm	ASTM D5185m	1270	1185	1153	1162
Sulfur	ppm	ASTM D5185m	2060	3247	3135	2905
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	4	3
Sodium	ppm	ASTM D5185m		3	6	3
Potassium	ppm	ASTM D5185m	>20	3	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.8	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.6	20.4
ELLUD DEODA		mathad	limit/bass	current	history1	history2
FLUID DEGRA	DATION	method	limit/base	Current	Thistory	HISTOLYZ
TLUID DEGRA  Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.8	16.3



# **OIL ANALYSIS REPORT**





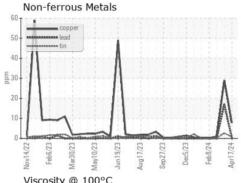


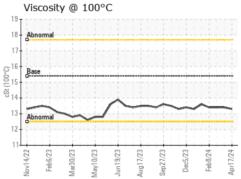
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

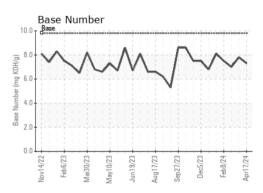
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.4	13.4

## **GRAPHS**

# Ferrous Alloys 120











Certificate 12367

Laboratory Sample No. Unique Number : 10990467 Test Package : FLEET

: GFL0111490 Lab Number : 06155044

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

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

Received : 19 Apr 2024 **Tested** Diagnosed

: 23 Apr 2024 : 23 Apr 2024 - Wes Davis

155 Story Road Warner Robins, GA US 31093 Contact: JOSH MALONEY

GFL Environmental - 073 - Warner Robins - Transwaste

jmaloney@gflenv.com T:

\* - 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)

F: