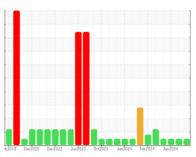


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **727105-310043** 

Component

Diesel Engine

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

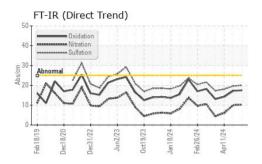
### **Fluid Condition**

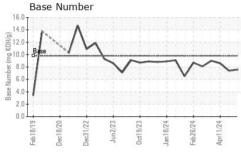
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

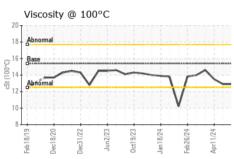
JAL)		102013 Dec2	020 Dec2022 Jun2023	002023 3an2024 F802024	ADIZUZ4	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121616	GFL0105253	GFL0105204
Sample Date		Client Info		20 Jun 2024	10 Jun 2024	11 Apr 2024
Machine Age	hrs	Client Info		19033	19017	18759
Oil Age	hrs	Client Info		600	150	150
Oil Changed		Client Info		Changed	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	15	17	1
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	0
Lead	ppm	ASTM D5185m	>45	1	<1	0
Copper	ppm	ASTM D5185m	>85	3	2	0
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	<1
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	60	56	55	51
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	835	875	831
Calcium	ppm	ASTM D5185m	1070	974	986	957
Phosphorus	ppm	ASTM D5185m	1150	982	979	963
Zinc	ppm	ASTM D5185m	1270	1143	1180	1087
Sulfur	ppm	ASTM D5185m	2060	2861	3316	3055
CONTAMINANTS method limit/base current history1 hist						history2
Silicon	ppm	ASTM D5185m	>30	5	6	3
Sodium	ppm	ASTM D5185m		26	19	4
Potassium	ppm	ASTM D5185m	>20	14	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.9	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.6	18.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	17.2	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.4	8.6
,						



# **OIL ANALYSIS REPORT**



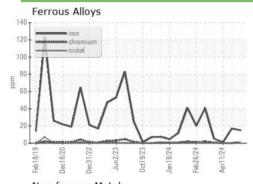


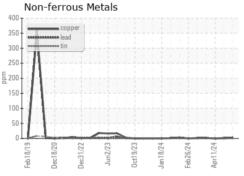


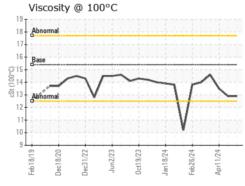
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

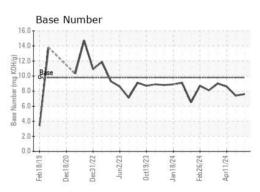
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	12.9	13.5

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0121616 Lab Number : 06219298

Unique Number : 11097495 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jun 2024 **Tested** 

: 25 Jun 2024 Diagnosed : 25 Jun 2024 - Wes Davis

33924 Olath Drive Lebanon, MO US 65536

Contact: Landen Johnson landen.johnson@gflenv.com T: (417)664-0010

GFL Environmental - 821 - Ozarks Hauling

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)