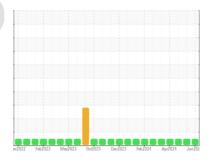


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
712026
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

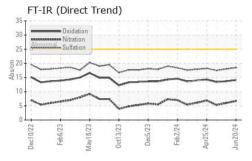
## **Fluid Condition**

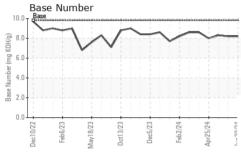
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

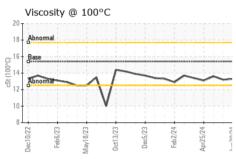
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0121540	GFL0105341	GFL0105294	
Sample Date		Client Info		20 Jun 2024	31 May 2024	15 May 2024	
Machine Age	hrs	Client Info		5997	5866	5741	
Oil Age	hrs	Client Info		150	150	150	
Oil Changed	0	Client Info		Not Changd	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	NC	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 METALS	5	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	6	5	3	
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	0	
Titanium	ppm	ASTM D5185m	_	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	<1	
Aluminum	ppm	ASTM D5185m	>25	4	2	1	
Lead	ppm	ASTM D5185m	>45	- <1	<1	0	
Copper	ppm	ASTM D5185m	>85	1	<1	0	
Tin	ppm	ASTM D5185m	>4	- <1	<1	0	
Vanadium	ppm	ASTM D5185m	7 7	<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
	рріп		limit/bass				
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	0	0	
Barium	ppm		0	1	0	0	
Molybdenum	ppm	ASTM D5185m	60	56	54	56	
Manganese	ppm	ASTM D5185m	0	<1	0	0	
Magnesium	ppm	ASTM D5185m	1010	877	851	963	
Calcium	ppm	ASTM D5185m	1070	1023	989	1067	
Phosphorus	ppm	ASTM D5185m	1150	1059	878	1073	
Zinc	ppm	ASTM D5185m	1270	1198	1143	1251	
Sulfur	ppm	ASTM D5185m	2060	3054	3065	3692	
CONTAMINANT	rs	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	3	3	2	
Sodium	ppm	ASTM D5185m		3	4	3	
Potassium	ppm	ASTM D5185m	>20	8	7	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.0	5.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.0	17.5	
FLUID DEGRADATION method limit/base current history1 history2							
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
FLUID DEGRAD Oxidation	ATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 14.1	history1	history2 13.4	
Oxidation			>25		•	•	



## **OIL ANALYSIS REPORT**



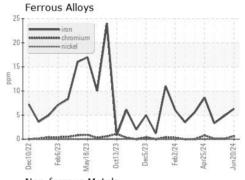


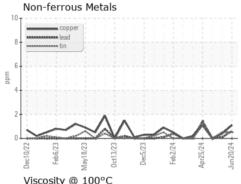


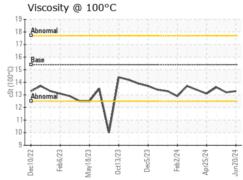
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

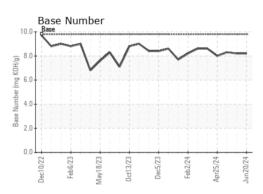
FLUID PROPE	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.2	13.6

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0121540 Lab Number : 06219258 Unique Number : 11097455

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

GFL Environmental - 821 - Ozarks Hauling 33924 Olath Drive Lebanon, MO

US 65536 Contact: Landen Johnson landen.johnson@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)

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

T: (417)664-0010