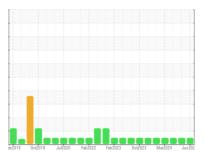


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 928067-205259

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- GAL)

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

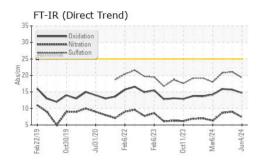
## **Fluid Condition**

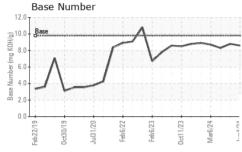
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

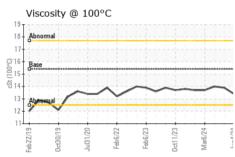
ane)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0118477	GFL0118476	GFL0118486	
Sample Date		Client Info		04 Jun 2024	15 Apr 2024	04 Apr 2024	
Machine Age	hrs	Client Info		16056	0	0	
Oil Age	hrs	Client Info		650	0	0	
Oil Changed		Client Info		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	>100	14	40	32	
Chromium	ppm	ASTM D5185m	>20	<1	1	1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	22	10	
Lead	ppm	ASTM D5185m	>40	<1	0	<1	
Copper	ppm	ASTM D5185m	>330	1	1	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	1	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	67	67	66	
Manganese	ppm	ASTM D5185m	0	0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	923	980	988	
Calcium	ppm	ASTM D5185m	1070	1106	1172	1142	
Phosphorus	ppm	ASTM D5185m	1150	1093	1184	1035	
Zinc	ppm	ASTM D5185m	1270	1226	1338	1221	
Sulfur	ppm	ASTM D5185m	2060	3088	3031	3294	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	6	6	
Sodium	ppm	ASTM D5185m		5	13	19	
Potassium	ppm	ASTM D5185m	>20	13	45	28	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	1.1	0.9	
Nitration	Abs/cm	*ASTM D7624		7.4	9.0	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	21.1	20.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	15.7	15.9	
Base Number (BN)	mg KOH/g	ASTM D2896		8.6	8.8	8.3	
= 200a.iiibbi (Di4)	91101119		5.0	0.0	0.0	0.0	



# **OIL ANALYSIS REPORT**



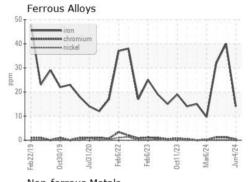


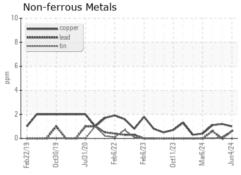


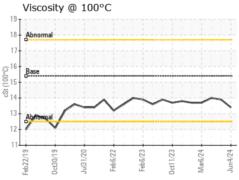
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

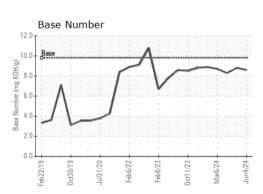
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.9	14.0

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06202312 Unique Number : 11069773

: GFL0118477

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024

**Tested** : 10 Jun 2024 Diagnosed : 10 Jun 2024 - Wes Davis

2100 Lilly Street Seminole, OK US 74868

Contact: Roger Barlow rbarlow@gflenv.com T: (405)204-6183

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)

GFL Environmental - 893 - OK East Hauling