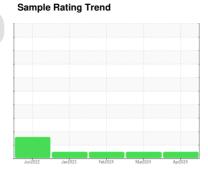


# **OIL ANALYSIS REPORT**



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

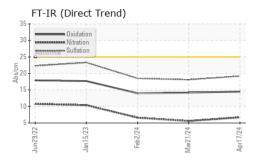
## **Fluid Condition**

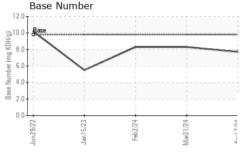
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

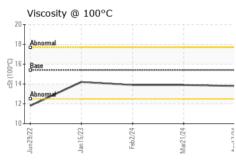
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108013	GFL0108003	GFL0108101
Sample Date		Client Info		17 Apr 2024	21 Mar 2024	02 Feb 2024
Machine Age	hrs	Client Info		0	0	4310
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	6	5	5
Chromium	ppm	ASTM D5185m		<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	3	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m		0	3	<1
Tin	ppm	ASTM D5185m	>15	<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	3	<1	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	56	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	907	966	968
Calcium	ppm	ASTM D5185m	1070	1049	1083	1045
Phosphorus	ppm	ASTM D5185m	1150	994	950	1078
Zinc	ppm	ASTM D5185m	1270	1207	1258	1305
Sulfur	ppm	ASTM D5185m	2060	3273	3674	3201
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	3
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	2	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.7	5.6	6.6
		*ACTM D7/15	>30	19.2	18.1	18.5
Sulfation	Abs/.1mm	*ASTM D7415	<b>&gt;</b> 00	10.2		10.0
Sulfation FLUID DEGRAE		method	limit/base	current	history1	history2
				-		
FLUID DEGRAE	DATION	method	limit/base	current	history1	history2

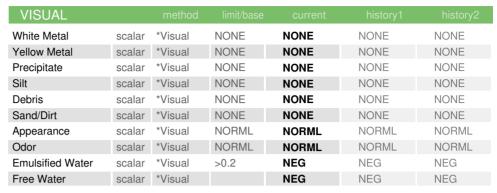


# **OIL ANALYSIS REPORT**



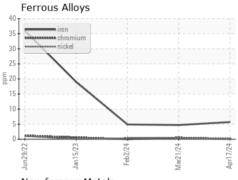


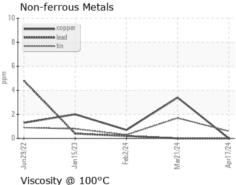


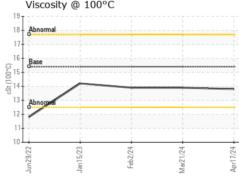


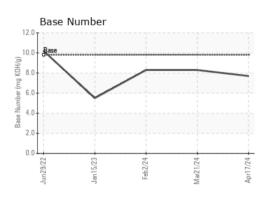
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.9

### **GRAPHS**













Sample No.

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108013 Lab Number : 06157278

Unique Number : 10992701 Test Package : FLEET

Received **Tested** Diagnosed

: 23 Apr 2024 : 24 Apr 2024 : 24 Apr 2024 - Wes Davis

GFL Environmental - 823 - Central Missouri Hauling 24461 Oak Grove Lane

Sedalia, MO US 65301

Contact: Terry Randolph trandolph@gflenv.com T: (660)631-2116

Certificate 12367 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)

Report Id: GFL823 [WUSCAR] 06157278 (Generated: 04/24/2024 10:56:18) Rev: 1

Contact/Location: Terry Randolph - GFL823