

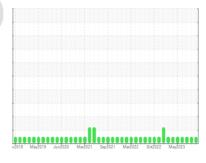
# **OIL ANALYSIS REPORT**

(YA140410) [oil service]

2678

Diesel Engine

PETRO CANADA DURON SHP 15W40 (46 GAL)



Sample Rating Trend



## 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

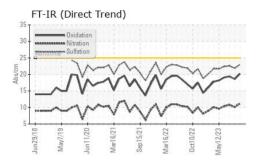
## **Fluid Condition**

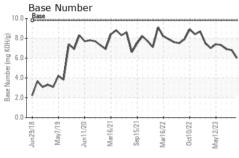
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

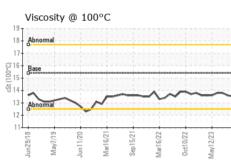
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124454	GFL0111067	GFL0087773
Sample Date		Client Info		03 Jun 2024	05 Feb 2024	17 Aug 2023
Machine Age	hrs	Client Info		18198	17442	16211
Oil Age	hrs	Client Info		756	6251	575
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	16	11	12
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>150	6	3	2
Copper	ppm	ASTM D5185m		<1	0	2
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
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	4	4	1
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	66	63	67
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	995	996	1043
Calcium	ppm	ASTM D5185m	1070	1180	1039	1222
Phosphorus	ppm	ASTM D5185m	1150	1156	1094	1082
Zinc	ppm	ASTM D5185m	1270	1322	1331	1344
Sulfur	ppm	ASTM D5185m	2060	3291	2948	3472
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	7	4	5
Sodium	ppm	ASTM D5185m		10	9	14
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.2	10.1	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.9	22.6
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	18.6	19.4
Base Number (BN)		ASTM D2896		6.0	6.8	6.9



# **OIL ANALYSIS REPORT**



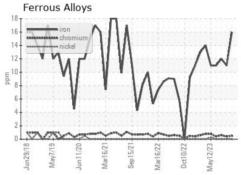


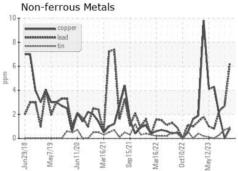


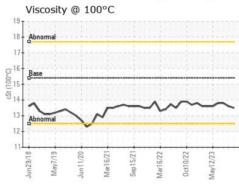
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

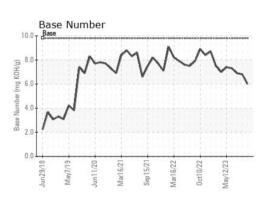
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.6	13.8	

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06199811 Unique Number : 11061934 Test Package : FLEET

: GFL0124454

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jun 2024

**Tested** : 05 Jun 2024 Diagnosed : 05 Jun 2024 - Wes Davis

GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC US 28401

Submitted By: NEIL GRIFFIN

Contact: Eric Wood eric.wood@gflenv.com T: (717)723-1956

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)

F: (910)762-6880

Report Id: GFL006 [WUSCAR] 06199811 (Generated: 06/05/2024 17:46:24) Rev: 1