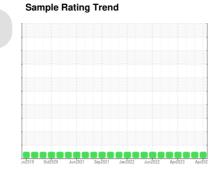


# **OIL ANALYSIS REPORT**



PETRO CANADA DURON SHP 15W40 (8 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

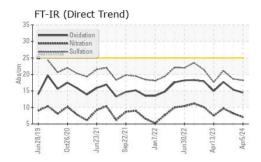
## **Fluid Condition**

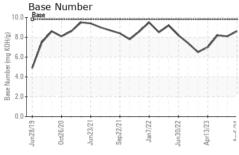
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

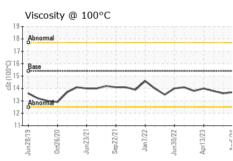
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111024	GFL0111051	GFL0082228
Sample Date		Client Info		05 Apr 2024	21 Feb 2024	06 Jul 2023
Machine Age	hrs	Client Info		12467	12062	10911
Oil Age	hrs	Client Info		405	1151	551
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status		00110		NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	24	24
Chromium	ppm		>20	0	1	<1
Nickel		ASTM D5185m	>50	0	<1	0
	ppm			0		0
Titanium	ppm	ASTM D5185m		-	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>50	2	7	7
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm		>330	<1	1	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	3	3
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	58	62	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	924	916	955
Calcium	ppm	ASTM D5185m	1070	1064	1043	1193
Phosphorus	ppm	ASTM D5185m	1150	1057	1053	1088
Zinc	ppm	ASTM D5185m	1270	1226	1238	1366
Sulfur	ppm	ASTM D5185m	2060	3384	3274	3763
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	5	9
Sodium	ppm	ASTM D5185m		<1	0	2
Potassium	ppm	ASTM D5185m	>20	<1	3	6
INFRA-RED		method	limit/base	current	history1	history2
					•	
Soot %	%	*ASTM D7844	>5	0.3	0.4	0.6
Soot % Nitration		*ASTM D7844 *ASTM D7624		0.3 7.1	0.4 8.2	0.6 9.7
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844	>5 >20	0.3	0.4	0.6
Soot % Nitration Sulfation FLUID DEGRA	% Abs/cm Abs/.1mm ADATION	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>5 >20 >30 limit/base	0.3 7.1 18.2 current	0.4 8.2 18.6 history1	0.6 9.7 21.1 history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm ADATION Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>5 >20 >30 limit/base >25	0.3 7.1 18.2	0.4 8.2 18.6	0.6 9.7 21.1



# **OIL ANALYSIS REPORT**





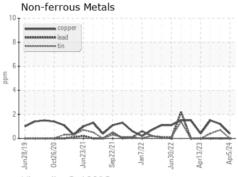


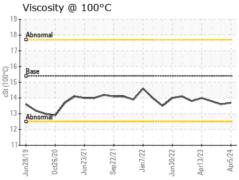
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

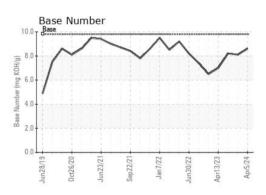
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.6	13.8

## **GRAPHS**

# Ferrous Alloys











Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06141087 Unique Number : 10965895

: GFL0111024 Test Package : FLEET

Received : 08 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed

: 09 Apr 2024 - Wes Davis

GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC US 28401

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

F: (910)762-6880

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: GFL006 [WUSCAR] 06141087 (Generated: 04/09/2024 10:39:06) Rev: 1

Submitted By: Eric Wood