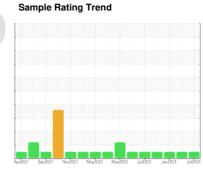


# **OIL ANALYSIS REPORT**

Area (**C0353712**) 411032

Diesel Engine

## PETRO CANADA DURON SHP 15W40 (11 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

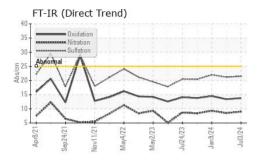
## **Fluid Condition**

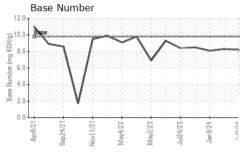
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

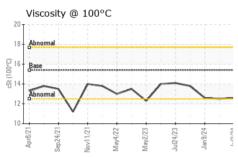
SAMPLE INFOR	MATION	method_	limit/base	current	history1	history2
Sample Number	WATION	Client Info	mmbasc	GFL0103401	GFL0114542	GFL0103409
Sample Date		Client Info		03 Jul 2024	08 May 2024	09 Jan 2024
Machine Age	hrs	Client Info		7306	7278	6845
Oil Age	hrs	Client Info		461	433	454
Oil Changed	1113	Client Info		Changed	Not Changd	Changed
Sample Status		Ollerit IIIIO		NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel	1011	WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	VEG	NEG	NEG
Glycol		WC Method	>0.2	NEG	NEG	NEG
	2					
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	78	34	13
Chromium	ppm		>20	4	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm		>20	15	6	2
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m		2	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	9	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	71	61	61
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1030	888	874
Calcium	ppm	ASTM D5185m	1070	1162	1033	1016
Phosphorus	ppm	ASTM D5185m	1150	1046	1017	959
Zinc	ppm	ASTM D5185m	1270	1346	1174	1141
Sulfur	ppm	ASTM D5185m	2060	3181	3330	2805
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	3	3
Sodium	ppm	ASTM D5185m		6	3	3
Potassium	ppm	ASTM D5185m	>20	30	15	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.9	1.9	2.2
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.5	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.2	22.0
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	13.4	14.5
Oxidation						



# **OIL ANALYSIS REPORT**



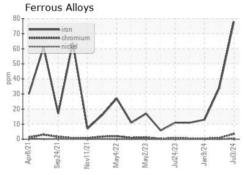


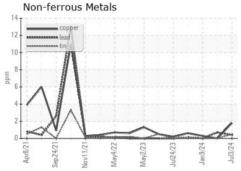


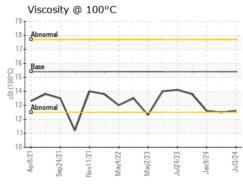
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

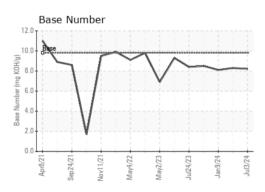
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	12.5	12.6

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06229875 Unique Number : 11113368

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103401

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

Test Package : FLEET

: 08 Jul 2024 Received **Tested** : 09 Jul 2024

Diagnosed : 09 Jul 2024 - Wes Davis

2699 Cochran Industrial Blvd Douglasville, GA US 30127-1332

GFL Environmental - 095 - Atlanta West

Contact: Darrell Welch darrell.welch@gflenv.com T: (800)207-6618

\* - 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: GFL095 [WUSCAR] 06229875 (Generated: 07/09/2024 08:09:49) Rev: 1

Submitted By: Darrell Welch