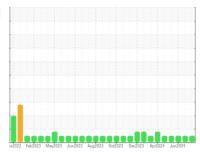


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
413024
Component
Diesel Engine

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

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

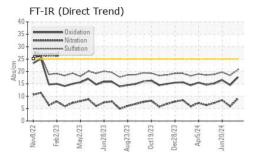
# **Fluid Condition**

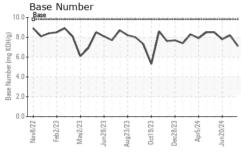
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

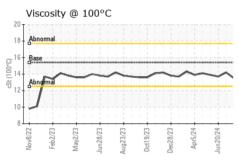
CAMPLE INFOE		mothed	limit/base	Ol tree not	history	biotory.0
SAMPLE INFOR	RIVIA I ION		ilmit/base		history1	history2
Sample Number		Client Info		GFL0128574	GFL0123009	GFL0123001
Sample Date		Client Info		06 Jul 2024	28 Jun 2024	20 Jun 2024
Machine Age	hrs	Client Info		4022	1866	3905
Oil Age	hrs	Client Info		117	3905	159
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	9	4	6
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	8	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	4	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	59	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	928	1004	994
Calcium	ppm	ASTM D5185m	1070	1110	1086	1060
Phosphorus	ppm	ASTM D5185m	1150	999	1063	1024
Zinc	ppm	ASTM D5185m	1270	1180	1276	1276
Sulfur	ppm	ASTM D5185m	2060	3157	3598	3462
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	6
Sodium	ppm	ASTM D5185m		8	2	4
Potassium	ppm	ASTM D5185m	>20	7	3	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.1	5.9	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	18.4	19.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	14.5	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	8.2	7.8



# **OIL ANALYSIS REPORT**



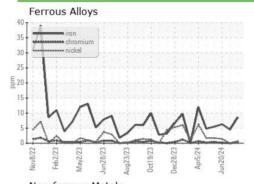


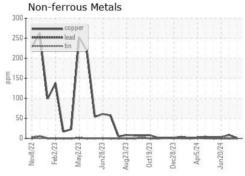


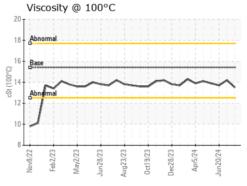
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

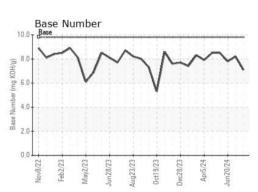
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.2	13.7

# **GRAPHS**













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06234275 Unique Number : 11123109

: GFL0128574

Received **Tested** 

: 12 Jul 2024 Diagnosed : 12 Jul 2024 - Wes Davis

: 11 Jul 2024

4005 Hwy 161 N. Little Rock, AR US 72117

GFL Environmental - 814 - Little Rock Hauling

Contact: Brad Koenig bkoenig@gflenv.com

Test Package : FLEET 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: GFL814 [WUSCAR] 06234275 (Generated: 07/12/2024 15:43:51) Rev: 1

Submitted By: Nicole Walls

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F: