

# **OIL ANALYSIS REPORT**

Sample Rating Trend

### NORMAL

## Machine Id

921067-64

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (12 GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

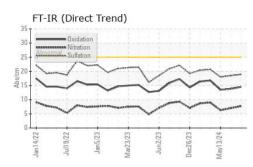
#### Fluid Condition

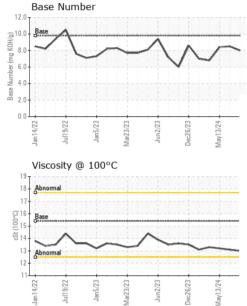
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0125855	GFL0118689	GFL0118645
Sample Date		Client Info		25 Jun 2024	03 Jun 2024	13 May 2024
Machine Age	hrs	Client Info		9892	9892	9892
Oil Age	hrs	Client Info		600	600	400
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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	17	16	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	3
Nickel	ppm	ASTM D5185m	>4	0	0	2
Titanium	ppm	ASTM D5185m		<1	0	2
Silver	ppm	ASTM D5185m	>3	0	0	3
Aluminum	ppm	ASTM D5185m	>20	9	8	8
Lead	ppm	ASTM D5185m	>40	<1	0	3
Copper	ppm	ASTM D5185m	>330	5	5	7
Tin	ppm	ASTM D5185m	>15	<1	<1	3
Vanadium	ppm	ASTM D5185m		0	0	2
Cadmium	ppm	ASTM D5185m		0	0	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	<1	2
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	60	58	58	61
Manganese	ppm	ASTM D5185m	0	<1	0	3
Magnesium	ppm	ASTM D5185m	1010	1008	922	903
Calcium	ppm	ASTM D5185m	1070	1187	1054	1045
Phosphorus	ppm	ASTM D5185m	1150	1070	1017	937
Zinc	ppm	ASTM D5185m	1270	1316	1216	1129
Sulfur	ppm	ASTM D5185m	2060	3722	3347	3025
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	7
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	6	10	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.0	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.5	18.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	13.8	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.5	8.4

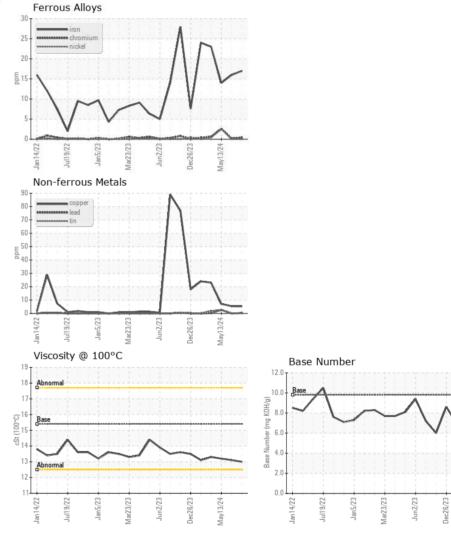


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.1	13.2
GRAPHS						





GFL Environmental - 166 - Phenix City 18 Old Brickyard Rd Phenix City, AL US 36869 Contact: DEAN PEACE JR dean.peace@gflenv.com T: F:

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Submitted By: DARRIN WRIGHT

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