

# **OIL ANALYSIS REPORT**

## Sample Rating Trend





Area
166
Machine Id
913005
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

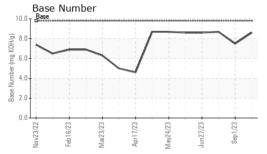
## **Fluid Condition**

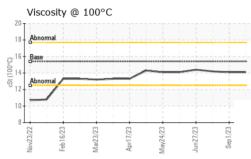
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

\(\frac{\text{\text{We/2022}}}{\text{\text{We/2023}}} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087875	GFL0087863	GFL0087814
Sample Date		Client Info		27 Sep 2023	01 Sep 2023	21 Jul 2023
Machine Age	hrs	Client Info		40641	3084	27881
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	5	15	7
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	0
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper		ASTM D5185m	>330	1	4	2
Coppei Tin	ppm	ASTM D5185m	>15	<1	1	<1
≀iii Vanadium	ppm	ASTM D5185m	>10	0	<1	<1
Variaulum Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	5	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	66	62
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	931	1062	1045
Calcium	ppm	ASTM D5185m	1070	1026	1182	1106
Phosphorus	ppm	ASTM D5185m	1150	1035	1047	1036
Zinc	ppm	ASTM D5185m	1270	1230	1346	1312
Sulfur	ppm	ASTM D5185m	2060	3333	3491	3631
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	4
Sodium	ppm	ASTM D5185m		2	4	3
Potassium	ppm	ASTM D5185m	>20	1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.9	8.3	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	19.8	19.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	15.6	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	7.5	8.7



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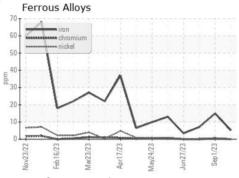


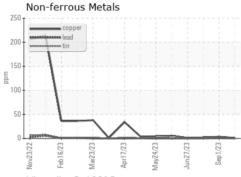


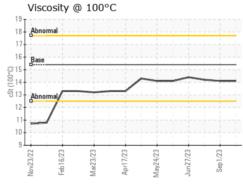
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

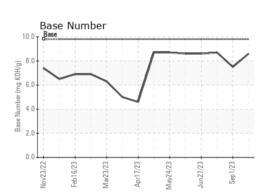
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Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.1	14.2

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10673930 Test Package : FLEET

: GFL0087875 : 05967379

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Oct 2023 : 04 Oct 2023 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 166 - Phenix City

18 Old Brickyard Rd Phenix City, AL US 36869

Contact: DEAN PEACE JR dean.peace@gflenv.com

T:

\* - 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)

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