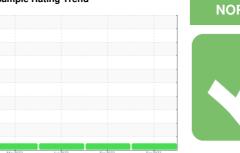


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id 913026 Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- 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

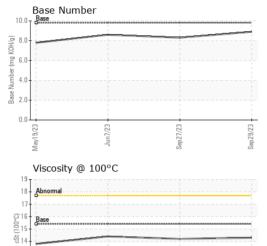
## **Fluid Condition**

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

14 0111 13 14 0 (	May2023 Jun2023 Sap2023 Sap2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0091807	GFL0086547	GFL0074356	
Sample Date		Client Info		29 Sep 2023	27 Sep 2023	07 Jun 2023	
Machine Age	hrs	Client Info		2638	2605	1843	
Oil Age	hrs	Client Info		2638	0	0	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	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		2	17	7	
Chromium	ppm	ASTM D5185m		<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	3	<1	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m		<1	2	0	
Lead		ASTM D5185m	>40	<1	<1	<1	
	ppm	ASTM D5185m		<1	2	4	
Copper Tin	ppm	ASTM D5185m		<1	1	<1	
rırı Vanadium	ppm	ASTM D5185m	>15	0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
	ppm						
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	6	0	4	
Barium	ppm	ASTM D5185m	0	0	0	2	
Molybdenum	ppm	ASTM D5185m	60	59	62	63	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	984	913	915	
Calcium	ppm	ASTM D5185m	1070	1042	1060	1079	
Phosphorus	ppm	ASTM D5185m	1150	1064	1002	1041	
Zinc	ppm	ASTM D5185m	1270	1296	1243	1234	
Sulfur	ppm	ASTM D5185m	2060	3300	3162	3463	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5	3	
Sodium	ppm	ASTM D5185m		2	4	2	
Potassium	ppm	ASTM D5185m	>20	1	2	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.1	0.7	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	4.8	7.6	5.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	19.9	19.2	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	15.3	15.4	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	8.3	8.6	
` '	0						



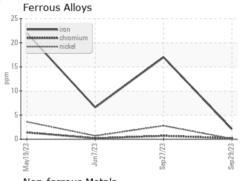
# **OIL ANALYSIS REPORT**

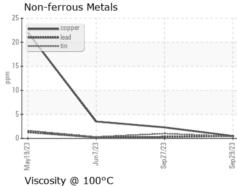


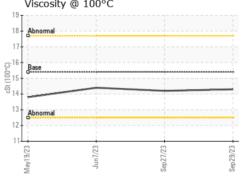
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

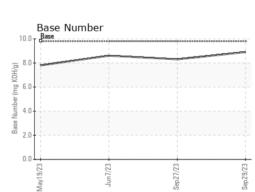
FLUID PROPI	ERITES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.2	14.4

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: GFL0091807 : 05967484 Unique Number : 10674035

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

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

: 03 Oct 2023 : 04 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Jimmy Mayes

jmayes@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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