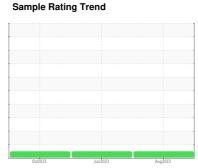


# **OIL ANALYSIS REPORT**



NORMAL



Machine Id **924040** 

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

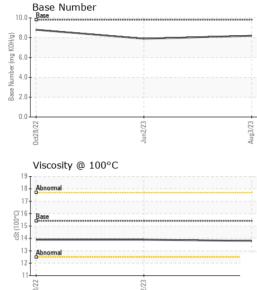
## **Fluid Condition**

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

GAL) Octors Juntos Augtors							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0066056	GFL0066102	GFL0060315	
Sample Date		Client Info		03 Aug 2023	02 Jun 2023	28 Oct 2022	
Machine Age	hrs	Client Info		0	0	322351	
Oil Age	hrs	Client Info		0	0	322351	
Oil Changed		Client Info		N/A	N/A	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	3	6	3	
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	1	0	
Lead	ppm	ASTM D5185m	>45	<1	0	2	
Copper	ppm	ASTM D5185m	>85	<1	<1	<1	
Tin	ppm	ASTM D5185m	>4	<1	0	0	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	10	8	15	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	54	34	63	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	906	507	879	
Calcium	ppm	ASTM D5185m	1070	1212	1834	1308	
Phosphorus	ppm	ASTM D5185m	1150	990	965	991	
Zinc	ppm	ASTM D5185m	1270	1221	1156	1294	
Sulfur	ppm	ASTM D5185m	2060	3633	3858	3260	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	7	18	3	
Sodium	ppm	ASTM D5185m		4	4	3	
Potassium	ppm	ASTM D5185m	>20	3	<1	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.8	9.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	19.6	23.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	13.8	20.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.9	8.8	



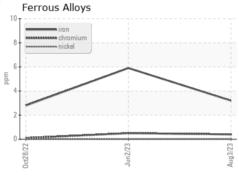
# **OIL ANALYSIS REPORT**

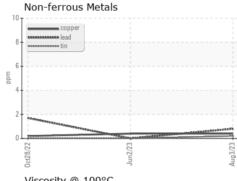


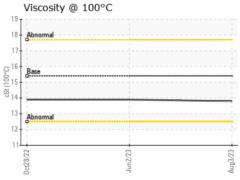
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

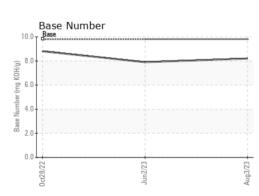
L LLOID PROPI		method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.9

## **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10606964 Test Package : FLEET

: GFL0066056 : 05927017

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Aug 2023 Diagnosed : 17 Aug 2023

Diagnostician : Wes Davis

GFL Environmental - 904 - Chippewa Falls HC

11888 & 11863 30th Avenue Chippewa Falls, WI US 54729

Contact: Andy Kane

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)

T: (715)202-3420