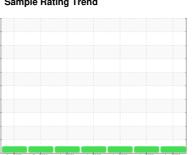


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id **426171-226046** 

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

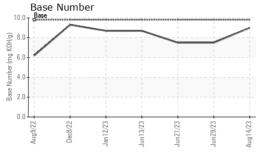
## **Fluid Condition**

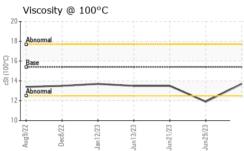
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

`		AugZUZZ	Dec2UZZ Jan2UZ3	Jun2023 Jun2023 Jun2023	Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0072544	GFL0067223	GFL0072561	
Sample Date		Client Info		14 Aug 2023	29 Jun 2023	21 Jun 2023	
Machine Age	hrs	Client Info		2331	15769	15769	
Oil Age	hrs	Client Info		2331	600	15769	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	1.3	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>80	12	20	15	
Chromium	ppm	ASTM D5185m	>5	<1	<1	1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>30	4	5	4	
Lead	ppm	ASTM D5185m	>30	0	0	<1	
Copper	ppm	ASTM D5185m	>150	2	3	4	
Tin	ppm	ASTM D5185m	>5	0	<1	<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	6	5	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	66	58	64	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1004	930	949	
Calcium	ppm	ASTM D5185m	1070	1211	1126	1105	
Phosphorus	ppm	ASTM D5185m	1150	1139	1054	1035	
Zinc	ppm	ASTM D5185m	1270	1363	1281	1280	
Sulfur	ppm	ASTM D5185m	2060	3886	3657	3107	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm		>20	4	8	5	
Sodium	ppm	ASTM D5185m		2	3	2	
Potassium	ppm	ASTM D5185m		2	5	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.6	
Nitration	Abs/cm	*ASTM D7624		7.6	8.6	10.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.7	21.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	15.8	19.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	7.5	7.5	



# **OIL ANALYSIS REPORT**

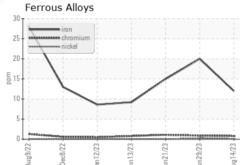


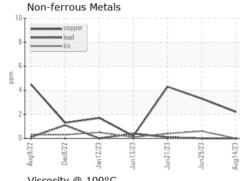


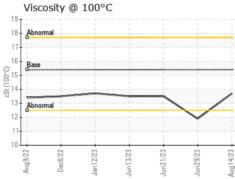
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

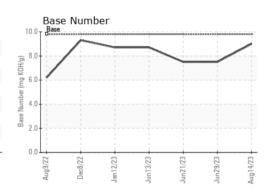
FLUID PROPE	EKIIES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	11.9	13.5

## **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10621276 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0072544 : 05936005

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

Received Diagnosed

: 28 Aug 2023 : 28 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 419 - Metro Saginaw

6950 N Michigan Saginaw, MI US 48604 Contact: Jeremy Hines

jhines@gflenv.com T: (800)684-1277

\* - 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)