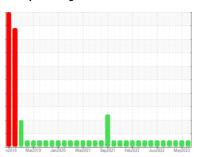


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **2722** Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (10 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

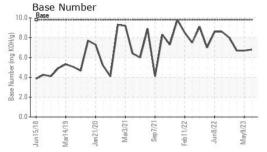
### **Fluid Condition**

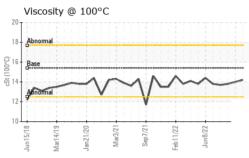
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

n2018 Mar2019 Jan2020 Mar2021 Sap2021 Feb2022 Jun2022 Mar2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0082492	GFL0050791	GFL0050725
Sample Date		Client Info		09 Aug 2023	09 May 2023	16 Mar 2023
Machine Age	hrs	Client Info		12782	0	11682
Oil Age	hrs	Client Info		626	0	700
Oil Changed		Client Info		Changed	N/A	Changed
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 METALS method limit/base current history1 history2						
Iron	ppm	ASTM D5185m	>165	12	8	12
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	0	3
Lead	ppm	ASTM D5185m	>150	4	3	4
Copper	ppm	ASTM D5185m	>90	<1	0	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	15	21	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	53	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	965	633	932
Calcium	ppm	ASTM D5185m	1070	1182	1457	1167
Phosphorus	ppm	ASTM D5185m	1150	1067	819	1036
Zinc	ppm	ASTM D5185m	1270	1257	1026	1268
Sulfur	ppm	ASTM D5185m	2060	4245	2994	2984
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	4	4
Sodium	ppm	ASTM D5185m		5	7	5
Potassium	ppm	ASTM D5185m	>20	4	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.4	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.7	10.7	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.0	22.1	22.6
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.4	20.3	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	6.7	6.7



# **OIL ANALYSIS REPORT**

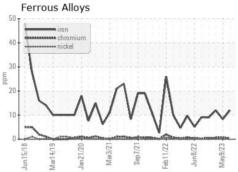


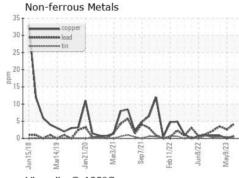


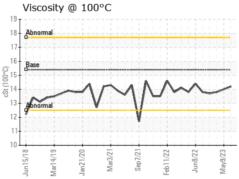
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

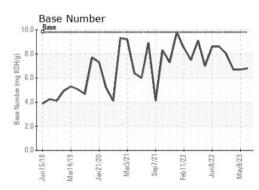
FLUID PROPE	EKIIES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.0	13.8

### **GRAPHS**













Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0082492 : 05920606

: 10592520

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

Received : 10 Aug 2023 Diagnosed : 11 Aug 2023 Diagnostician : Don Baldridge

GFL Environmental - 007 - Brunswick 2809 Galloway Road

Bolivia, NC US 28422

Contact: TOMMY DEVINE tommy.devine@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)

F: (910)253-4179

Submitted By: TOMMY DEVINE