

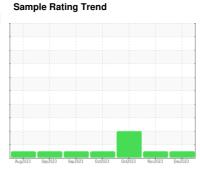
# **OIL ANALYSIS REPORT**



# Area (UNASSIGNED) 834016

Component **Natural Gas Engine** 

PETRO CANADA DURON SHP 15W40 (8 GAL)





### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### 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.

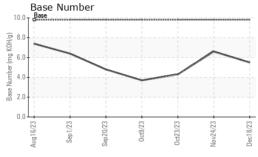
714 0111 1344-0	(U GAL)	Aug2023	Sep2023 Sep2023	Oct2023 Oct2023 Nov2023	Dec2023	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107208	GFL0101235	GFL009789
Sample Date		Client Info		18 Dec 2023	24 Nov 2023	23 Oct 2023
Machine Age	hrs	Client Info		933	797	591
Oil Age	hrs	Client Info		342	206	591
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	22	18	28
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	4
Lead	ppm	ASTM D5185m	>30	1	<1	1
Copper	ppm	ASTM D5185m	>35	4	3	11
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	3	17
Barium	ppm	ASTM D5185m	0	<1	0	5
Molybdenum	ppm	ASTM D5185m	60	61	57	37
Manganese	ppm	ASTM D5185m	0	2	2	6
Magnesium	ppm	ASTM D5185m	1010	920	883	<b>482</b>
Calcium	ppm	ASTM D5185m	1070	1092	1135	<b>1</b> 774
Phosphorus	ppm	ASTM D5185m	1150	956	967	<b>▲</b> 542
Zinc	ppm	ASTM D5185m	1270	1166	1163	<b>648</b>
Sulfur	ppm	ASTM D5185m	2060	2811	2700	2035
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	7	21
Sodium	ppm	ASTM D5185m		7	5	8
Potassium	ppm	ASTM D5185m	>20	1	0	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.3	7.6	8.3
Sulfation	Abs/.1mm	*ASTM D7415		18.1	17.5	19.9
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.7	17.4
Doos Number (DNI	) ma 1/011/a	ACTM DOOGS	0.0	E	6.6	4.0

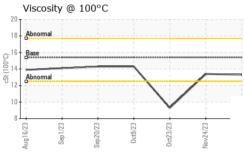
5.5

Base Number (BN) mg KOH/g ASTM D2896 9.8



## **OIL ANALYSIS REPORT**

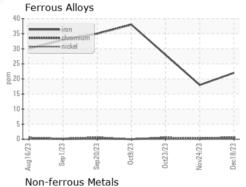


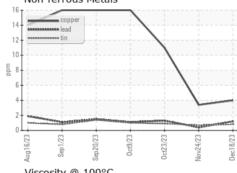


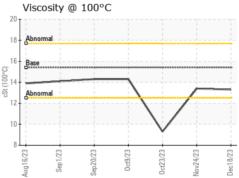
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

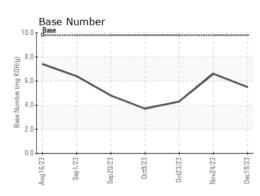
FLUID PROPE	ERTIES	method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.4	<b>9.3</b>	

### **GRAPHS**













Certificate L2367

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

: GFL0107208 : 06041259 : 10796488

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

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

: 20 Dec 2023 : 22 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

\* - 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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