

# **OIL ANALYSIS REPORT**

(P662031) 10892C

**Natural Gas Engine** 

# PETRO CANADA DURON GEO LD 15W40 (11 GAL)

Sample Rating Trend



## 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.

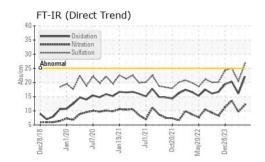
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SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109575	GFL0110378	GFL0096913
Sample Date		Client Info		30 May 2024	15 Feb 2024	07 Feb 2024
Machine Age	hrs	Client Info		6451	5650	5580
Oil Age	hrs	Client Info		9961	5650	5580
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINA <sup>*</sup>	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	16	12	43
Chromium	ppm	ASTM D5185m	>4	1	1	4
Nickel	ppm	ASTM D5185m	>2	1	1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	3	3	4
Lead	ppm	ASTM D5185m	>30	10	1	7
Copper	ppm	ASTM D5185m	>35	<1	1	2
Tin	ppm	ASTM D5185m	>4	1	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	7	23	10
Barium	ppm	ASTM D5185m	5	0	0	2
Molybdenum	ppm	ASTM D5185m	50	64	83	73
Manganese	ppm	ASTM D5185m	0	<1	1	2
Magnesium	ppm	ASTM D5185m	560	681	898	749
Calcium	ppm	ASTM D5185m	1510	1672	2156	1750
Phosphorus	ppm	ASTM D5185m	780	903	1009	922
Zinc	ppm	ASTM D5185m	870	1103	1437	1206
Sulfur	ppm	ASTM D5185m	2040	2759	3849	2595
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	9	9	43
Sodium	ppm	ASTM D5185m		9	8	8
Potassium	ppm	ASTM D5185m	>20	2	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.1	9.7	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	20.4	25.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	16.1	20.3
Daga Number (DNI)	ma 1/011/2	ACTAI DOOOC	100	0.4	F 0	0.0

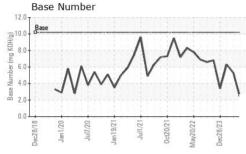
2.4

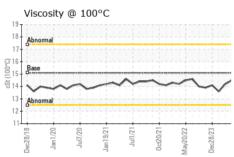
Base Number (BN) mg KOH/g ASTM D2896 10.2



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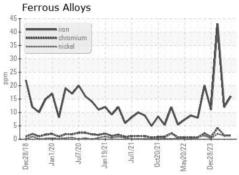


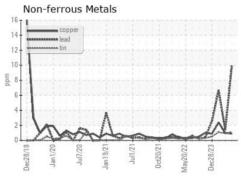


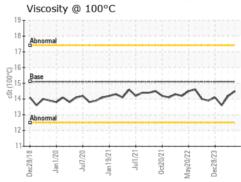
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual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

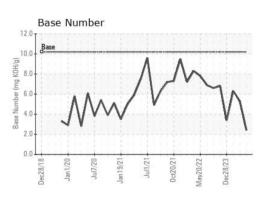
FLUID PROPE	RHES	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.2	13.6

### **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06197359

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109575

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

Unique Number : 11059482

Received : 03 Jun 2024 **Tested** Diagnosed

: 04 Jun 2024 : 04 Jun 2024 - Wes Davis

GFL Environmental - 031 - Greenville/Spartanburg

1635 Antioch Church Rd Piedmont, SC US 29673

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.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)

Report Id: GFL031 [WUSCAR] 06197359 (Generated: 06/04/2024 10:15:58) Rev: 1

Submitted By: Matt Segars

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