

# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id 913115 Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (28 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

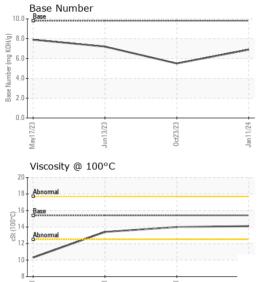
## **Fluid Condition**

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

		May202	3 Jun2023	0ct2023 J	an 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096891	GFL0091713	GFL0084007
Sample Date		Client Info		11 Jan 2024	23 Oct 2023	13 Jun 2023
Machine Age	hrs	Client Info		0	1625	0
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	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
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	15	14	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	1
Aluminum	ppm	ASTM D5185m	>20	<1	<1	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	4	15	48
Tin	ppm	ASTM D5185m		1	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	4	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	57	66
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	926	897	998
Calcium	ppm	ASTM D5185m	1070	1066	1005	1180
Phosphorus	ppm	ASTM D5185m	1150	952	946	1010
Zinc	ppm	ASTM D5185m	1270	1152	1164	1318
Sulfur	ppm	ASTM D5185m	2060	2317	2459	3375
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	5	11
Sodium	ppm	ASTM D5185m		4	1	2
Potassium	ppm	ASTM D5185m	>20	0	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	8.0	0.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.5	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	19.6	20.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	15.5	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	5.5	7.2
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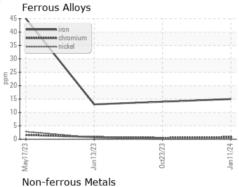
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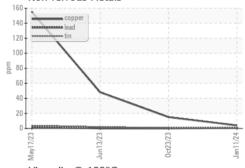


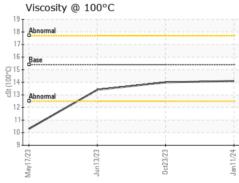
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

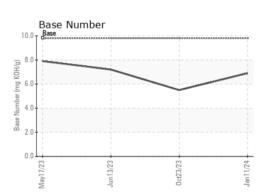
FLUID FROF	EULIES	memou			HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.0	13.4

## **GRAPHS**













Laboratory Sample No. Lab Number Unique Number : 10848148 Test Package : FLEET

: GFL0096891 : 06071471

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 26 Jan 2024 : 26 Jan 2024

Diagnosed Diagnostician : Wes Davis GFL Environmental - 401 - Fort Wayne Hauling 4429 ALLEN MARTIN DR FORT WAYNE, IN

US 46806 Contact: Zachory Roehm

zroehm@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)

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