

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# NORMAL



Machine Id **913117** 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

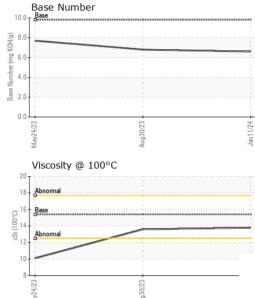
# **Fluid Condition**

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

N SHP 15W40 (2	8 GAL)	Ma	y2023	Aug2023 Jan20	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096892	GFL0091722	GFL0071031
Sample Date		Client Info		11 Jan 2024	30 Aug 2023	24 May 2023
Machine Age	hrs	Client Info		0	1431	0
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.3
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	22	31	53
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>5	7	6	4
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	1	<1	1
Aluminum	ppm	ASTM D5185m	>20	<1	0	5
Lead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m		14	58	158
Tin	ppm	ASTM D5185m	>15	1	1	4
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	8	250
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	70	131
Manganese	ppm	ASTM D5185m	0	<1	1	6
Magnesium	ppm	ASTM D5185m	1010	919	1049	738
Calcium	ppm	ASTM D5185m	1070	1063	1261	1615
Phosphorus	ppm	ASTM D5185m	1150	934	987	728
Zinc	ppm	ASTM D5185m	1270	1146	1321	916
Sulfur	ppm	ASTM D5185m	2060	2148	2974	2612
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	16	15	139
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	3 1	3	5
	ppm					
INFRA-RED	0/	method	limit/base		history1	history2
Soot %	% Abo/om	*ASTM D7844	>4	0.8	0.9	0.7
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	8.8 20.3	9.3 21.2	10.5 25.6
FLUID DEGRAI			limit/base		history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.7	24.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	6.8	7.7



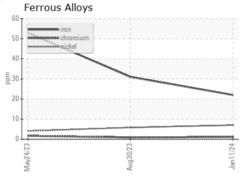
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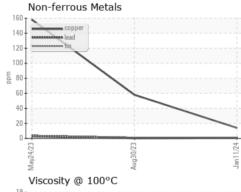


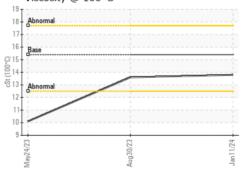
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

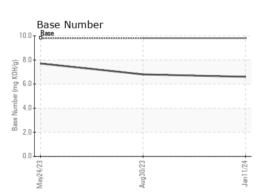
FLUID PROPERTIES		memoa			riistory i	HISTORYZ	
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.6	▲ 10.1	

# **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10848149 Test Package : FLEET

: GFL0096892 : 06071472

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 Diagnosed

: 30 Jan 2024 Diagnostician : Sean Felton

GFL Environmental - 401 - Fort Wayne Hauling 4429 ALLEN MARTIN DR FORT WAYNE, IN

> US 46806 Contact: Stephanie Burton

stephanieburton@gflenv.com T: (260)747-5037

\* - 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)