

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

VISCOSITY



724017-870022

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

# DIAGNOSIS A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Engine oil sample)

### Wear

All component wear rates are normal.

## Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

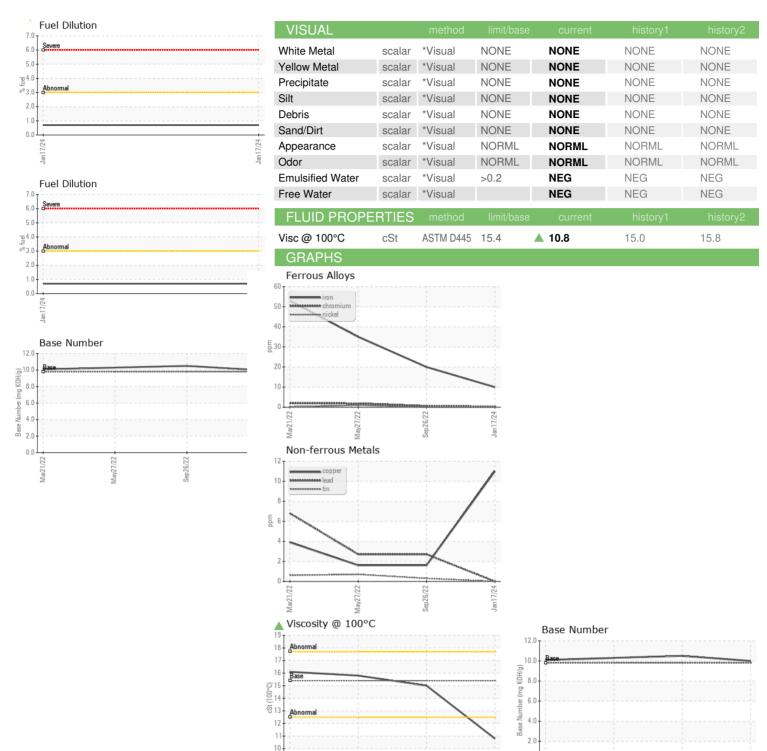
### ▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

N SHP 15W40 (-	- GAL)	Mar202	2 May2022	Sep2022 Ja	n2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100559	GFL0054414	GFL0045014
Sample Date		Client Info		17 Jan 2024	26 Sep 2022	27 May 2022
Machine Age	hrs	Client Info		16978	195029	183741
Oil Age	hrs	Client Info		16978	195029	7044
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>90	10	20	35
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	2
Aluminum	ppm	ASTM D5185m	>20	2	4	7
Lead	ppm	ASTM D5185m	>40	0	3	3
Copper	ppm	ASTM D5185m	>330	11	2	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	68	<1	4
Barium	ppm	ASTM D5185m	0	13	0	0
Molybdenum	ppm	ASTM D5185m	60	42	66	72
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	530	1005	1156
Calcium	ppm	ASTM D5185m	1070	1664	1215	1258
Phosphorus	ppm	ASTM D5185m	1150	795	1098	1228
Zinc	ppm	ASTM D5185m	1270	967	1315	1539
Sulfur	ppm	ASTM D5185m	2060	2652	3410	3166
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18	4	5
Sodium	ppm	ASTM D5185m		3	0	8
Potassium	ppm	ASTM D5185m	>20	3	1	1
Fuel	%	ASTM D3524	>3.0	0.7	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.1	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.0	8.4	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.8	23.0
FLUID DEGRAI	ATION	mathad	limit/base		hiotomit	history2
L LEGID DEGNAL	JATION	method	IIIIII/Dase	current	history1	HISTOLYZ
Oxidation Oxidation	Abs/.1mm	*ASTM D7414	>25	current 18.4	18.1	20.4
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# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

**Unique Number** 

: GFL0100559 : 06068920 : 10845597

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 23 Jan 2024 Diagnosed : 25 Jan 2024 Diagnostician : Sean Felton

0.0

**Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

GFL Environmental - 865 - East Mount Hauling

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