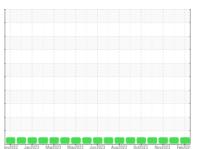


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









422090-29 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- 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

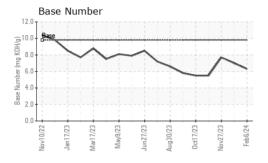
### **Fluid Condition**

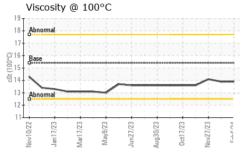
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N 5HP 15W4U (-	GAL)	lov2022 Jan2	023 Mar2023 May2023	Jun2023 Aug2023 Oct2023 Nov.	023 Feb 202 <sup>4</sup>	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105548	GFL0105566	GFL0101109
Sample Date		Client Info		06 Feb 2024	10 Jan 2024	27 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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
ron	ppm	ASTM D5185m	>120	11	8	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	1	1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	4	4	1
Γin	ppm	ASTM D5185m	>15	<1	<1	<1
/anadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	93	129	144
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	18	18	17
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	163	129	105
Calcium	ppm	ASTM D5185m	1070	2481	1954	1975
Phosphorus	ppm	ASTM D5185m	1150	1119	924	970
Zinc	ppm	ASTM D5185m	1270	1456	1172	1186
Sulfur	ppm	ASTM D5185m	2060	4050	3461	3243
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	5
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	11	11	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.2	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.8	20.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
I LOID DEGITA	D/ (1101)			Odificiti	,	,
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.8	16.4



## **OIL ANALYSIS REPORT**

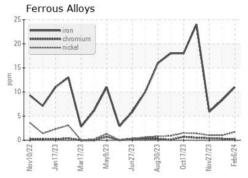


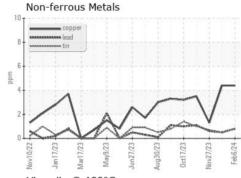


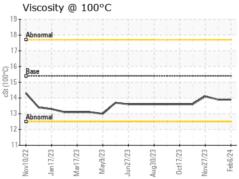
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

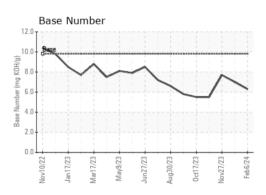
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	14.1

## **GRAPHS**













Laboratory Sample No.

Test Package : FLEET

: GFL0105548 Lab Number : 06104116 Unique Number : 10902346

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Feb 2024

**Tested** : 29 Feb 2024 Diagnosed : 02 Mar 2024 - Don Baldridge

GFL Environmental - 846 - Mayfield Hauling

3426 State Route 45 Mayfield, KY

US 42066 Contact: Jack Lindsey

jack.lindsey@gflenv.com T: (270)970-3690

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)

Report Id: GFL846 [WUSCAR] 06104116 (Generated: 03/02/2024 11:42:12) Rev: 1

Contact/Location: Jack Lindsey - GFL846