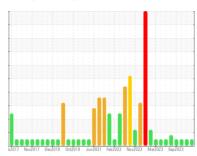


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 10714 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (28 GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

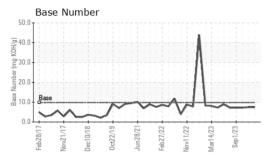
### **Fluid Condition**

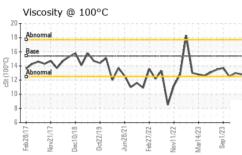
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)	5AL) 62017 Nev2017 Dev2018 Oct2019 Jun2021 Feb2022 Nev2022 Mar2023 Sep2023						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0101267	GFL0094319	GFL0094311	
Sample Date		Client Info		04 Dec 2023	26 Sep 2023	19 Sep 2023	
Machine Age	hrs	Client Info		1412	1007	932	
Oil Age	hrs	Client Info		405	185	110	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINA	TION	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 METAI	LS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	40	25	23	
Chromium	ppm	ASTM D5185m	>5	1	1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	2	3	<1	
Lead	ppm	ASTM D5185m	>25	0	0	<1	
Copper	ppm	ASTM D5185m	>100	8	41	36	
Tin	ppm	ASTM D5185m	>4	0	0	0	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	9	13	
Barium	ppm	ASTM D5185m	0	2	2	0	
Molybdenum	ppm	ASTM D5185m	60	59	62	58	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	777	787	785	
Calcium	ppm	ASTM D5185m	1070	1025	1059	1056	
Phosphorus	ppm	ASTM D5185m	1150	830	902	858	
Zinc	ppm	ASTM D5185m	1270	1051	1085	1058	
Sulfur	ppm	ASTM D5185m	2060	2811	2806	3213	
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	8	7	6	
Sodium	ppm	ASTM D5185m		4	6	4	
Potassium	ppm	ASTM D5185m	>20	2	1	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	1.2	0.7	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.0	5.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	17.6	17.4	
FLUID DEGRA	NOITAD.	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7	11.6	12.3	
Base Number (BN)		ASTM D2896		7.4	7.5	7.2	
_accontamber (DIV)	mg Normg	TO THE DEGOOD	0.0		7.0	1.1	



## **OIL ANALYSIS REPORT**

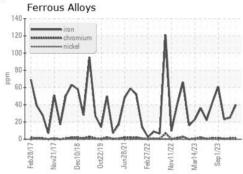


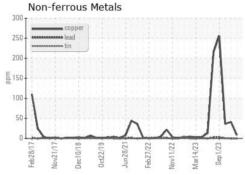


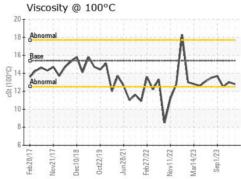
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

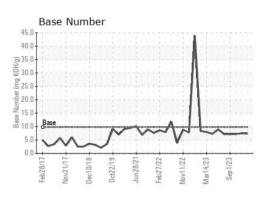
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.0	12.5

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: 06026164 : 10775955 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0101267 Received : 06 Dec 2023 Diagnosed

Diagnostician : Wes Davis

: 07 Dec 2023

1280 Rum Creek Parkway

GFL Environmental - 010 - Stockbridge

Stockbridge, GA US 30281 Contact: JOSHUA TINKER

joshuatinker@gflenv.com T:

F:

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)