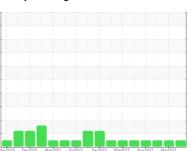


## **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id 10904 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (27 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

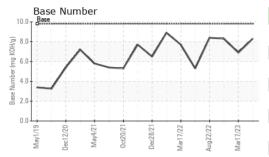
## **Fluid Condition**

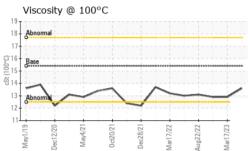
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

14 3111 13 14 40 (2	, and	Nay2019 Deca	020 May2021 Oct2021	Dec2021 Mar2022 Aug2022	Mar2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092504	GFL0072365	GFL0058550
Sample Date		Client Info		19 Aug 2023	17 Mar 2023	12 Sep 2022
Machine Age	hrs	Client Info		0	14957	13904
Oil Age	hrs	Client Info		0	14957	100
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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	27	32	19
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	13	11	4
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	1	<1	1
Γin	ppm	ASTM D5185m	>15	<1	0	<1
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	7	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	59	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	938	956	821
Calcium	ppm	ASTM D5185m	1070	1219	1072	1042
Phosphorus	ppm	ASTM D5185m	1150	1026	1026	886
Zinc	ppm	ASTM D5185m	1270	1268	1278	1136
Sulfur	ppm	ASTM D5185m	2060	3617	3585	2650
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	4
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	21	23	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.5	9.5	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	19.2	21.9
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	17.8	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	6.9	8.3
()	0 - 9					



## **OIL ANALYSIS REPORT**

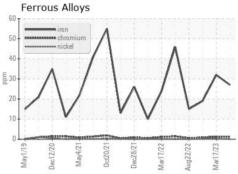


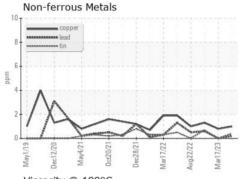


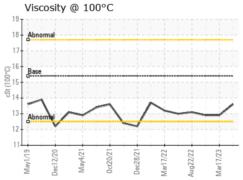
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

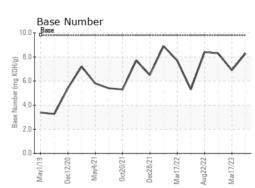
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	12.9	12.9	

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10608657 Test Package : FLEET

: GFL0092504 : 05928710

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Aug 2023

Diagnosed : 21 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 005 - Wilson/Tri-East(CNG) 2810 Contentnea Road S

Wilson, NC US 27893-8501 Contact: SPENCER LIGGON

spencer.liggon@gflenv.com T: (800)207-6618

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)