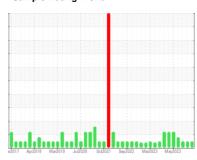


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



## Machine Id 10690 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (7 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

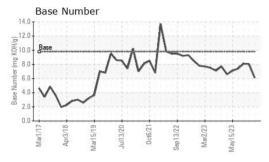
## **Fluid Condition**

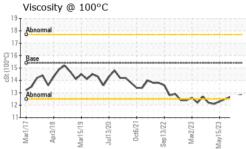
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

7 <b>AL)</b> #2017 Apr2018 Mar2019 Ju2020 Oct021 Sup2022 Mar2023 Mar2023 Mar2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088714	GFL0086154	GFL0083224
Sample Date		Client Info		16 Aug 2023	15 Jul 2023	22 Jun 2023
Machine Age	hrs	Client Info		19285	19114	18982
Oil Age	hrs	Client Info		456	765	1215
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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	55	37	22
Chromium	ppm	ASTM D5185m	>5	2	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	7	6	2
Lead	ppm	ASTM D5185m	>25	1	0	<1
Copper	ppm	ASTM D5185m	>100	19	18	19
Tin	ppm	ASTM D5185m	>4	<1	0	0
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	6	0	22
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	61	63
Manganese	ppm	ASTM D5185m	0	1	1	<1
Magnesium	ppm	ASTM D5185m	1010	793	810	724
Calcium	ppm	ASTM D5185m	1070	1151	1113	1089
Phosphorus	ppm	ASTM D5185m	1150	914	939	913
Zinc	ppm	ASTM D5185m	1270	1144	1170	1086
Sulfur	ppm	ASTM D5185m	2060	3037	3337	2894
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	6	5
Sodium	ppm	ASTM D5185m		8	4	0
Potassium	ppm	ASTM D5185m	>20	3	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	2.5	1.8	1
Nitration	Abs/cm	*ASTM D7624	>20	9.3	7.9	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	19.9	18.7
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	12.3	13.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1	8.0	8.1



# **OIL ANALYSIS REPORT**

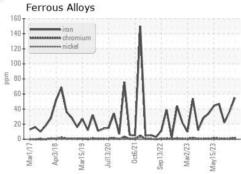


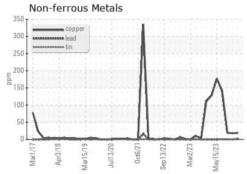


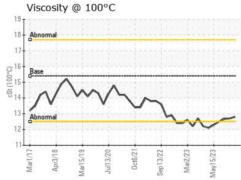
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

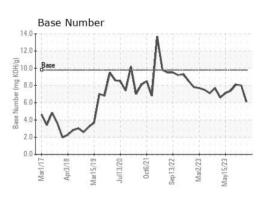
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.7	12.67

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Test Package : FLEET

Lab Number **Unique Number** 

: GFL0088714 : 05927045

: 10606992

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Aug 2023

Diagnosed : 17 Aug 2023 Diagnostician : Wes Davis

1280 Rum Creek Parkway Stockbridge, GA US 30281

GFL Environmental - 010 - Stockbridge

Contact: JOSHUA TINKER

joshuatinker@gflenv.com T:

\* - 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)

F: