

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 2628 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (46 QTS)

### 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.

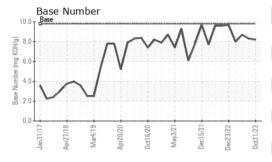
### **Fluid Condition**

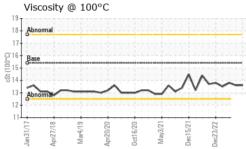
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

n2017 Apr2018 Mnr2019 Apr2020 Oct2020 Mnr2021 Oct2021 Oct2022 Oct201						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0076957	GFL0091183	GFL0076966
Sample Date		Client Info		31 Oct 2023	23 Aug 2023	21 Jul 2023
Machine Age	hrs	Client Info		20809	0	0
Oil Age	hrs	Client Info		7646	600	600
Oil Changed		Client Info		Changed	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	7 0.0	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m		14	15	10
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	5	2
_ead	ppm	ASTM D5185m	>150	2	<1	0
Copper	ppm	ASTM D5185m	>90	1	2	1
Γin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	4	6
Barium	ppm	ASTM D5185m	0	4	0	<1
Molybdenum	ppm	ASTM D5185m	60	59	66	66
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	862	1045	1036
Calcium	ppm	ASTM D5185m	1070	1059	1231	1242
Phosphorus	ppm	ASTM D5185m	1150	828	1153	1148
Zinc	ppm	ASTM D5185m	1270	1191	1398	1395
Sulfur	ppm	ASTM D5185m	2060	3019	3962	4067
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	4	4
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	3	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.7	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.6	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.1	18.9
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.3	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.3	8.7
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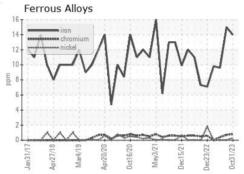


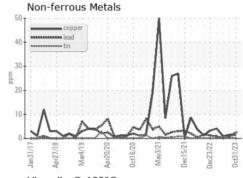


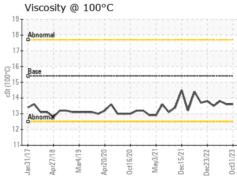
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

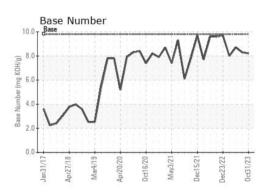
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.6	13.8	

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10726002 Test Package : FLEET

: GFL0076957 : 05997642

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 03 Nov 2023 : 06 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 020 - Alamance

703 East Gilbreath St Graham, NC US 27253

F: (336)229-0526

Contact:

richard.belcher@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)