

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 10578 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (56 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

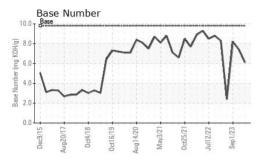
### **Fluid Condition**

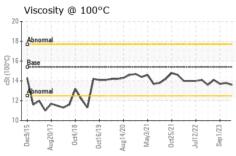
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)	26/15 Aug2017 Oct018 Oct018 Aug2020 May0021 Oct021 Jul0022 Sap2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0093738	GFL0093755	GFL0093736	
Sample Date		Client Info		19 Feb 2024	29 Dec 2023	01 Sep 2023	
Machine Age	hrs	Client Info		14253	13970	13391	
Oil Age	hrs	Client Info		0	0	0	
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	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	26	34	40	
Chromium	ppm	ASTM D5185m	>5	2	2	4	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	3	3	2	
Lead	ppm	ASTM D5185m	>25	<1	1	0	
Copper	ppm	ASTM D5185m	>100	<1	1	<1	
Tin	ppm	ASTM D5185m	>4	<1	<1	<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	8	4	6	
Barium	ppm	ASTM D5185m	0	0	10	0	
Molybdenum	ppm	ASTM D5185m	60	59	58	58	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	911	855	879	
Calcium	ppm	ASTM D5185m	1070	1051	1009	1086	
Phosphorus	ppm	ASTM D5185m	1150	987	1106	1011	
Zinc	ppm	ASTM D5185m	1270	1218	1163	1211	
Sulfur	ppm	ASTM D5185m	2060	2833	3287	3452	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	11	9	14	
Sodium	ppm	ASTM D5185m		7	10	13	
Potassium	ppm	ASTM D5185m	>20	0	2	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.4	0.7	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.8	8.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.5	18.4	
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	17.5	13.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1	7.4	8.2	



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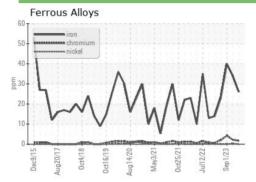


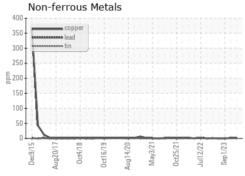


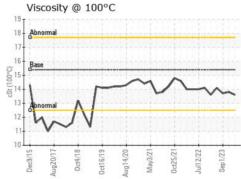
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

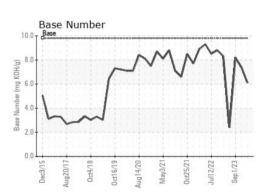
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	13.7

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

: GFL0093738 Lab Number : 06097485 Unique Number: 10890338 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Feb 2024

: 23 Feb 2024 **Tested** : 23 Feb 2024 - Wes Davis Diagnosed

GFL Environmental - 029 - Wytheville

2390 North 4th Street Wytheville, VA US 24382

Contact: CHARLES CORVIN

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

charles.corvin@gflenv.com;canastasio@wearcheckusa.com T: (276)223-4476

\* - 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)

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