

### **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# Machine Id 10592

Component

Diesel Engine

#### PETRO CANADA DURON SHP 15W40 (32 G

#### 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.

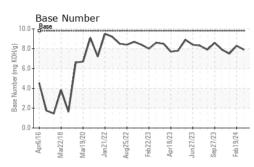
#### Fluid Condition

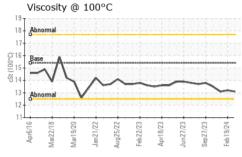
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)		x2016 Mar2018	Mar2020 Jan2022 Aug202	22 Feb2023 Apr2023 Jun2023 Sep20	123 Feb2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0068828	GFL0068893	GFL0068869
Sample Date		Client Info		11 Mar 2024	19 Feb 2024	29 Jan 2024
Machine Age	hrs	Client Info		21924	21825	21722
Oil Age	hrs	Client Info		202	103	564
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	ON	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	9	5	11
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	2	3
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	1	<1	<1
	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
-	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	5	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	56	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	ppm	ASTM D5185m	1010	852	935	905
	ppm	ASTM D5185m	1070	936	968	957
	ppm	ASTM D5185m	1150	958	1018	994
	ppm	ASTM D5185m	1270	1122	1247	1226
-	ppm	ASTM D5185m	2060	2922	3052	2964
CONTAMINANT	S	method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>25	6	3	4
	ppm	ASTM D5185m		4	3	4
Potassium	ppm	ASTM D5185m	>20	3	3	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.3	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	17.8	18.7
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.4	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.3	7.5

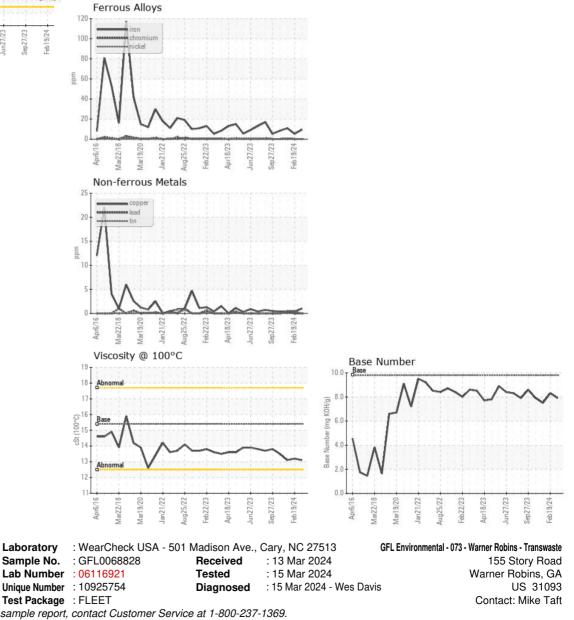


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.2	13.1
GRAPHS						





 Certificate 12307
 Test Package
 : FLEET

 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)

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