

## **OIL ANALYSIS REPORT**

Sample Rating Trend





925015-9010

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- LTR)

SAMPLE INF	ORMATION	method	limit/base	current	history1	history2
Sample Number	r	Client Info		GFL0108301	GFL0061552	GFL0047844
Sample Date		Client Info		29 Jan 2024	18 Aug 2023	03 Nov 2022
Machine Age	hrs	Client Info		20787	15962	0
Oil Age	hrs	Client Info		20787	15962	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMIN	JATION	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 MET	TALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	76	22	53
Chromium	ppm	ASTM D5185m		1	<1	2
Nickel	ppm	ASTM D5185m	>5	9	7	26
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		13	5	12
Lead		ASTM D5185m		0	0	2
	ppm			3	1	
Copper	ppm	ASTM D5185m		-		3
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	3	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	6	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	50	58
Manganese	ppm	ASTM D5185m	0	1	<1	2
Magnesium	ppm	ASTM D5185m	1010	890	846	879
Calcium	ppm	ASTM D5185m	1070	1063	1267	1058
Phosphorus	ppm	ASTM D5185m	1150	989	1017	960
Zinc	ppm	ASTM D5185m	1270	1191	1251	1173
Sulfur	ppm	ASTM D5185m	2060	3172	3745	3267
CONTAMIN	IANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	9
Sodium	ppm	ASTM D5185m		0	3	4
Potassium	ppm	ASTM D5185m	>20	4	2	2
INFRA-REE	)	method	limit/base	current	history1	history2
	%	*ASTM D7844	>4	1.2	1.2	2.3
Soot %			>20	6.4	7.1	11.1
Soot % Nitration	Abs/cm	*ASTM D7624				
	Abs/cm Abs/.1mm	*ASTM D7624		18.9	19.3	24.9
Nitration	Abs/.1mm	*ASTM D7415				24.9
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	19.3	

### 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.

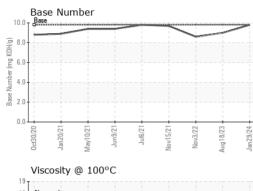
#### Fluid Condition

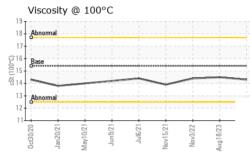
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Submitted By: TECHNICIAN ACCOUNT

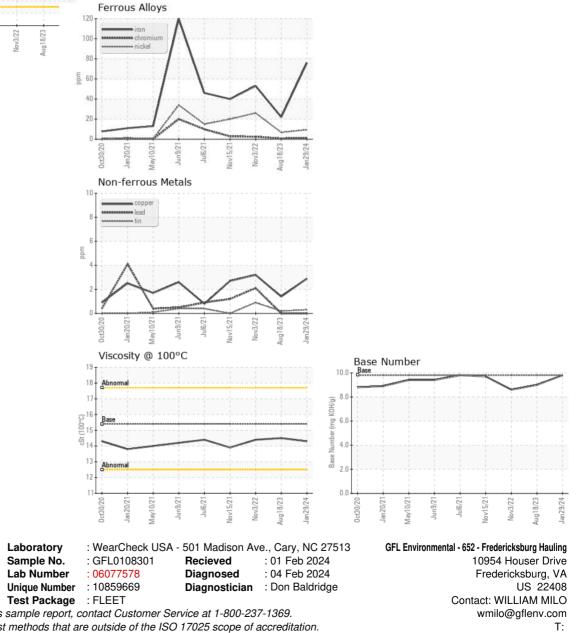


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.3	14.5	14.4
GRAPHS						





Certificate L2367 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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