

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 649M Component

Fluid

Diesel Engine

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

N SHP 15W40 ( GAL)								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0091507	GFL0081303	GFL0071243		
Sample Date		Client Info		12 Sep 2023	19 May 2023	07 Mar 2023		
Machine Age	hrs	Client Info		8989	8588	7992		
Dil Age	hrs	Client Info		600	600	600		
Oil Changed		Client Info		Not Changd	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		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2		
ron	ppm	ASTM D5185m	>120	16	9	6		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>5	0	0	0		
Fitanium	ppm	ASTM D5185m	>2	<1	0	<1		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	2	0	<1		
ead	ppm	ASTM D5185m	>40	1	<1	<1		
Copper	ppm	ASTM D5185m	>330	2	1	<1		
Гin	ppm	ASTM D5185m	>15	<1	<1	<1		
/anadium	ppm	ASTM D5185m		<1	0	<1		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	<1	1	3		
Barium	ppm	ASTM D5185m	0	0	0	0		
Nolybdenum	ppm	ASTM D5185m	60	60	47	56		
Vanganese	ppm	ASTM D5185m	0	<1	<1	1		
Magnesium	ppm	ASTM D5185m	1010	1044	738	900		
Calcium	ppm	ASTM D5185m	1070	1196	852	1077		
Phosphorus	ppm	ASTM D5185m	1150	998	768	934		
Zinc	ppm	ASTM D5185m	1270	1330	991	1218		
Sulfur	ppm	ASTM D5185m	2060	3171	2270	3185		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	5	2	3		
Sodium	ppm	ASTM D5185m		6	4	2		
Potassium	ppm	ASTM D5185m	>20	1	<1	<1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>4	0.9	0.7	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.6	7.5		
Sulfation	Abs/.1mm	*ASTM D7415		20.6	19.7	18.9		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	15.1	14.3		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	7.7	8.4		
	0 - 9							

## DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

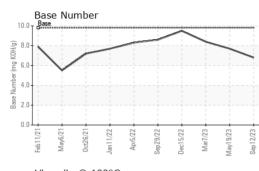
There is no indication of any contamination in the oil.

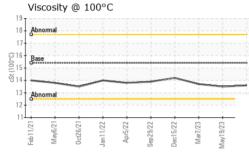
### Fluid Condition

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

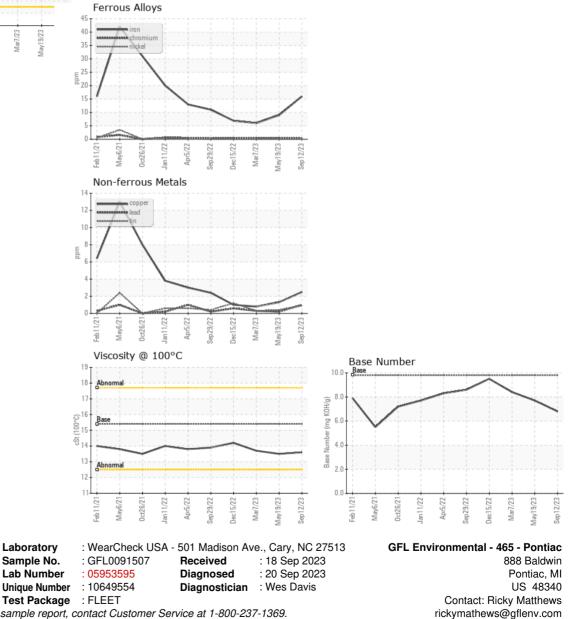


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.6	13.5	13.7
GRAPHS						



 Certificate L2367
 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)

F:

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