

## **OIL ANALYSIS REPORT**

Sample Rating Trend





DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

Machine Id 727041 Component

Fluid

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

oil is suitable for further service.

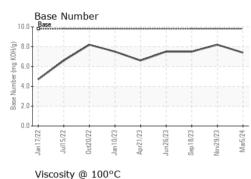
Diesel Engine

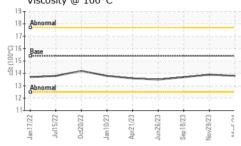
PETRO CANADA DURON SHP 15W40 (--- GAL)

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107847	GFL0096611	GFL0091546
Sample Date		Client Info		05 Mar 2024	29 Nov 2023	18 Sep 2023
Machine Age	hrs	Client Info		14639	14236	13695
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		N/A	Changed	N/A
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	>120	11	17	10
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	4	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	3	5
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	2	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	2
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	56	76	59
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	1010	1045	1144	961
Calcium	ppm	ASTM D5185m	1070	1181	1346	1161
Phosphorus	ppm	ASTM D5185m	1150	1005	1160	971
Zinc	ppm	ASTM D5185m	1270	1311	1507	1251
Sulfur	ppm	ASTM D5185m	2060	2939	4094	3212
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	3	6
Sodium	ppm	ASTM D5185m		2	5	6
Potassium	ppm	ASTM D5185m	>20	0	5	<1
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>4	0.5	0.5	0.4
Soot %		+LOTIL DEAL	>20	8.4	8.4	8.3
Soot % Nitration	Abs/cm	*ASTM D7624	220			
	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	19.3	19.5	19.2
Nitration	Abs/.1mm	*ASTM D7415			19.5 history1	
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3		19.2 history2 15.4

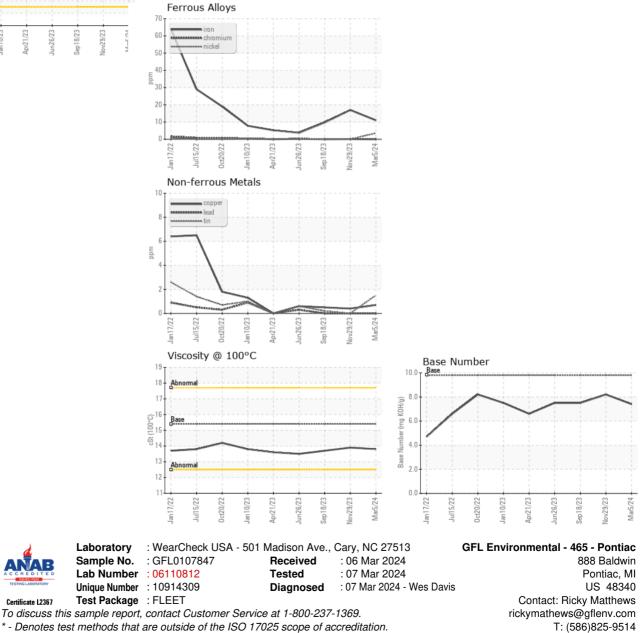


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VISUAL		method			history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	13.8	13.9	13.7
GRAPHS						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



Certificate L2367

Submitted By: Ricky Matthews

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