

OIL ANALYSIS REPORT

Machine Id **528065**

Component

1 Diesel Engine

PETRO CANADA DURON SHP 15W40 (39 QTS)

Sample Rating Trend NO Octobra



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

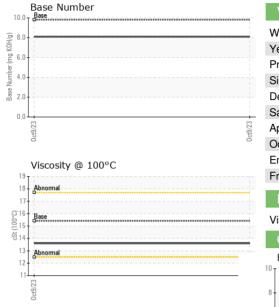
Fluid Condition

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

QTS)				Oct2023		
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092854		
Sample Date		Client Info		09 Oct 2023		
Machine Age	hrs	Client Info		23114		
Oil Age	hrs	Client Info		250		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	9		
Chromium	ppm	ASTM D5185m		2		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm		>20	1		
Lead	ppm	ASTM D5185m	>40	- <1		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m	>10	0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES	la la	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11		
Barium	ppm	ASTM D5185m	0	3		
Molybdenum		ASTM D5185m	60	55 55		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	821		
Calcium	ppm	ASTM D5185m	1070	1084		
		ASTM D5185m	1150	941		
Phosphorus Zinc	ppm	ASTM D5185m	1270	1094		
Sulfur	ppm	ASTM D5185m	2060	2854		
CONTAMINA		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		3		
Sodium	ppm	ASTM D5185m	725	3		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	8.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6		
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4		
Base Number (BN)		ASTM D2896	9.8	8.1		
Dase Mulliber (DIV)	illy NOn/g	79 LINI D5030	3.0	0.1		



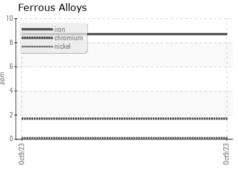
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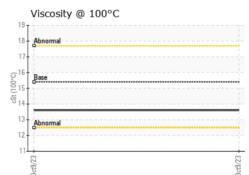
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
ELLIID DRODE	DTIES	method	limit/hase	current	history1	history?

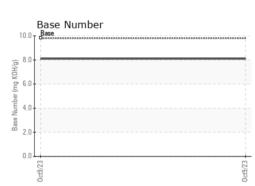
FLUID FNOF		memod			HISTOLAL	HISTORY
Visc @ 100°C	cSt	ASTM D445	15.4	13.6		

GRAPHS



10	Non-ferrous Metals	
10	copper	
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	Oct9/23	Oct9/23
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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10697513

: GFL0092854 : 05980218 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 16 Oct 2023 : 17 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 411 - Kingsford HC

1001 E Blvd Kingsford, MI US 49802

Contact: TECHNICIAN ACCOUNT

wcgfldemo@gmail.com

T:

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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