

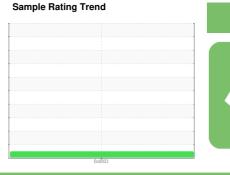
OIL ANALYSIS REPORT

\$0916A-Suamico **OR1833**

Component

Front Center Diesel Engine

PETRO CANADA DURON SHP 15W40 (18 QTS)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

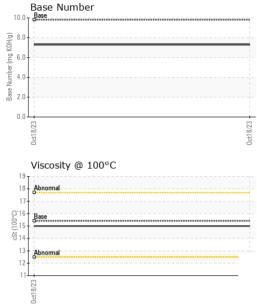
Fluid Condition

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

J(3)				Oct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095961		
Sample Date		Client Info		18 Oct 2023		
Machine Age	hrs	Client Info		5451		
Oil Age	hrs	Client Info		576		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	30		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm		>25	6		
Lead	ppm	ASTM D5185m	>40	10		
Copper	ppm	ASTM D5185m		2		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m	>10	<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES	ррпп	method	limit/base	current	history1	history2
					HISTORY	HISTOLYZ
Boron	ppm	ASTM D5185m	0	29		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	64		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	388		
Calcium	ppm	ASTM D5185m	1070	3074		
Phosphorus	ppm	ASTM D5185m	1150	1625		
Zinc	ppm	ASTM D5185m	1270	1795		
Sulfur	ppm	ASTM D5185m	2060	5703		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	5		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	8.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7		
Base Number (BN)	mg KOH/g		9.8	7.3		
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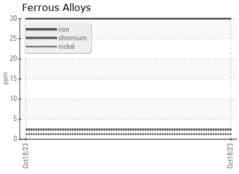
OIL ANALYSIS REPORT



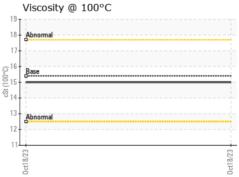
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
	DTIES		11 1.0		111	1111

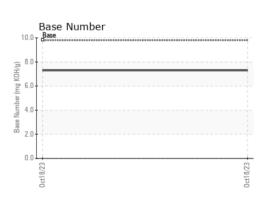
FLUID PROP	ERITES	method			riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	15.0		

GRAPHS



Non-ferrous Metals







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10741767 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0095961 : 06008005

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received : 15 Nov 2023 Diagnosed : 16 Nov 2023 Diagnostician : Sean Felton

GFL Environmental - 916A - Suamico

2300 Deerfield Ave E Suamico, WI US 54313

Contact: NICHOLAS WEIDNER

nweidner@gflenv.com

* - 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) T:

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