

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



Machine Id 101069

Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- QTS)

#### DIAGNOSIS

#### Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is an abnormal amount of solids and carbon present in the oil.

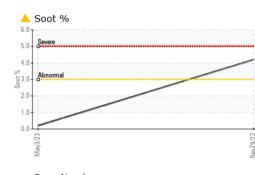
### Fluid Condition

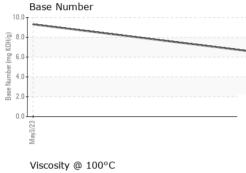
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

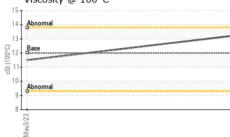
,			May2023	Sep2023		
SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105778	PCA0097792	
Sample Date		Client Info		29 Sep 2023	03 May 2023	
Machine Age	mls	Client Info		94465	74915	
Oil Age	mls	Client Info		19550	3738	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	80	6	
Chromium	ppm	ASTM D5185m	>20	1	0	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	<1	
Lead	ppm	ASTM D5185m	>40	2	<1	
Copper	ppm	ASTM D5185m	>330	230	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	13	
Barium	ppm	ASTM D5185m	0	0	2	
Molybdenum	ppm	ASTM D5185m	50	69	60	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	950	1012	797	
Calcium	ppm	ASTM D5185m	1050	1192	1075	
Phosphorus	ppm	ASTM D5185m	995	1077	990	
Zinc	ppm	ASTM D5185m	1180	1366	1132	
Sulfur	ppm	ASTM D5185m	2600	2995	3159	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		8	3	
Sodium	ppm	ASTM D5185m		3	0	
Potassium	ppm	ASTM D5185m	>20	3	2	
Fuel	%	ASTM D3524	>5	<1.0	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>4.2</b>	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	17.4	5.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.0	18.0	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.9	14.4	
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	9.3	
	J					



# **OIL ANALYSIS REPORT**









Test Package : MOB 1 (Additional Tests: FuelDilution, TBN) Certificate L2367 edavis@millertransgroup.com 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)

Report Id: MILLOG [WUSCAR] 06001272 (Generated: 11/12/2023 15:11:16) Rev: 1

Laboratory

Sample No.

Lab Number

Contact/Location: ED DAVIS - MILLOG

T: (856)214-3521

F: (856)214-3663