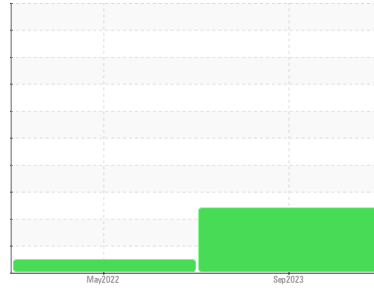




Machine Id
BS2837

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)



DIAGNOSIS

Recommendation
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear
All component wear rates are normal.

Contamination
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0097769	PCA0068542	---
Sample Date	Client Info	23 Sep 2023	10 May 2022	---
Machine Age	mls	Client Info	200028	179061
Oil Age	mls	Client Info	10000	0
Oil Changed	Client Info	Changed	Changed	---
Sample Status		SEVERE	NORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	36	14
Chromium	ppm	ASTM D5185m >20	<1	<1
Nickel	ppm	ASTM D5185m >4	0	0
Titanium	ppm	ASTM D5185m	0	<1
Silver	ppm	ASTM D5185m >3	0	0
Aluminum	ppm	ASTM D5185m >20	6	4
Lead	ppm	ASTM D5185m >40	<1	0
Copper	ppm	ASTM D5185m >330	<1	<1
Tin	ppm	ASTM D5185m >15	0	<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	12	188
Barium	ppm	ASTM D5185m 0	0	0
Molybdenum	ppm	ASTM D5185m 50	53	72
Manganese	ppm	ASTM D5185m 0	<1	<1
Magnesium	ppm	ASTM D5185m 950	738	567
Calcium	ppm	ASTM D5185m 1050	953	1275
Phosphorus	ppm	ASTM D5185m 995	727	625
Zinc	ppm	ASTM D5185m 1180	992	739
Sulfur	ppm	ASTM D5185m 2600	2740	2177

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	4
Sodium	ppm	ASTM D5185m	4	4
Potassium	ppm	ASTM D5185m >20	4	0
Fuel	%	ASTM D3524 >5	13.6	<1.0

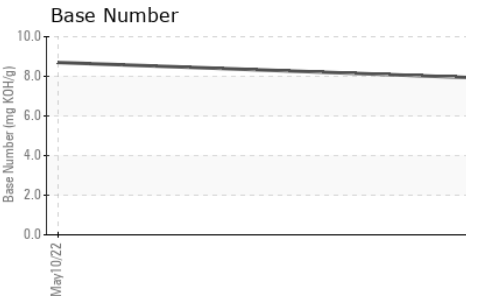
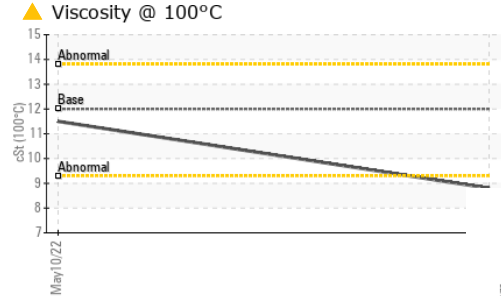
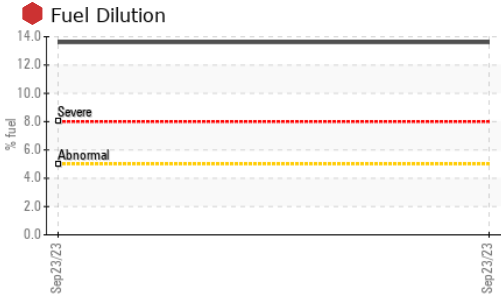
INFRA-RED

method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.4
Nitration	Abs/cm	*ASTM D7624 >20	9.2	9.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.3	21.6

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.8	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	7.9	8.7

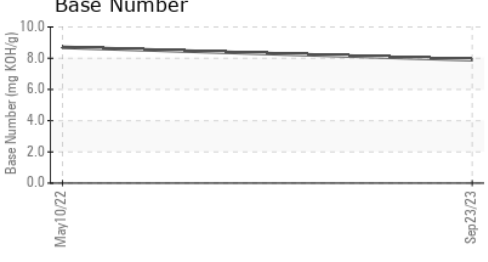
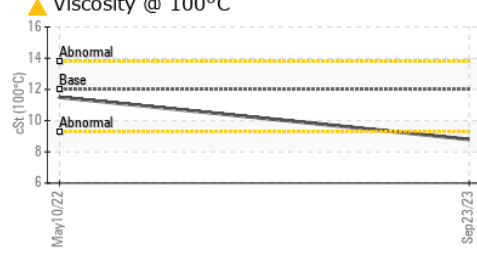
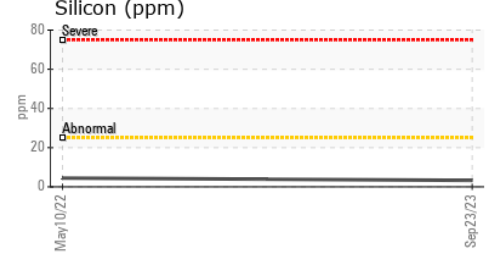
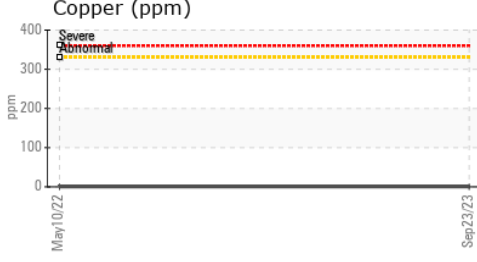
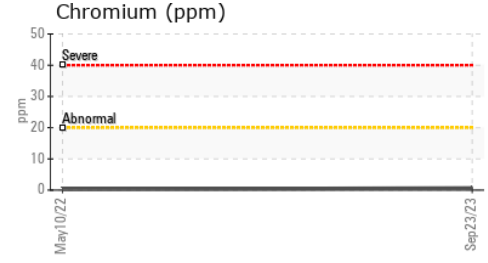
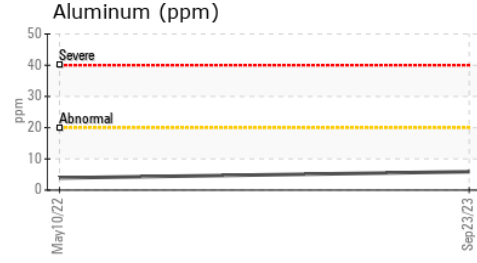
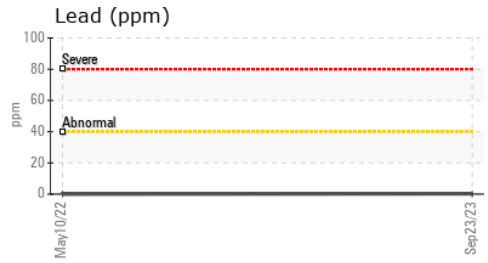
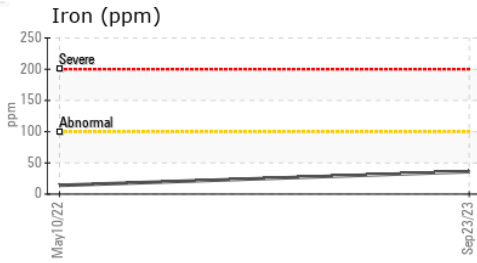
OIL ANALYSIS REPORT



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	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 8.8	11.5	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0097769 **Received** : 08 Nov 2023
Lab Number : 06001294 **Diagnosed** : 09 Nov 2023
Unique Number : 10729654 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

MILLER TRUCK LEASING #114
 63 REPAUPO STATION ROAD
 LOGAN TOWNSHIP, NJ
 US 08085
 Contact: ED DAVIS
 edavis@millertransgroup.com
 T: (856)214-3521
 F: (856)214-3663

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)