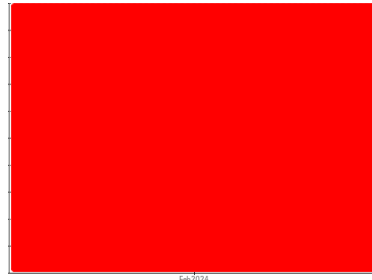




Machine Id
1424181
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

▲ Wear

Aluminum ppm levels are severe. Piston wear is indicated.

▲ Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil.

● Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0111435	---	---
Sample Date	Client Info		19 Feb 2024	---	---
Machine Age	mls	Client Info	234107	---	---
Oil Age	mls	Client Info	234107	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	68	---	---
Chromium	ppm	ASTM D5185m >20	2	---	---
Nickel	ppm	ASTM D5185m >4	1	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m >3	<1	---	---
Aluminum	ppm	ASTM D5185m >20	▲ 74	---	---
Lead	ppm	ASTM D5185m >40	7	---	---
Copper	ppm	ASTM D5185m >330	9	---	---
Tin	ppm	ASTM D5185m >15	1	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	1	---	---
Barium	ppm	ASTM D5185m 0	0	---	---
Molybdenum	ppm	ASTM D5185m 50	90	---	---
Manganese	ppm	ASTM D5185m 0	2	---	---
Magnesium	ppm	ASTM D5185m 950	1000	---	---
Calcium	ppm	ASTM D5185m 1050	1310	---	---
Phosphorus	ppm	ASTM D5185m 995	1100	---	---
Zinc	ppm	ASTM D5185m 1180	1298	---	---
Sulfur	ppm	ASTM D5185m 2600	3533	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	9	---	---
Sodium	ppm	ASTM D5185m	● 129	---	---
Potassium	ppm	ASTM D5185m >20	▲ 261	---	---
Glycol	%	*ASTM D2982	▲ 0.10	---	---

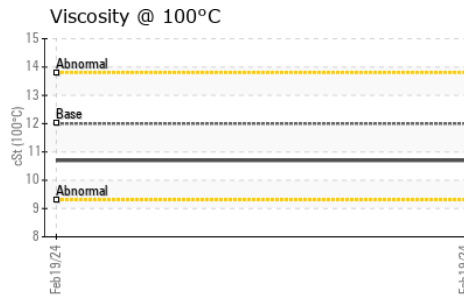
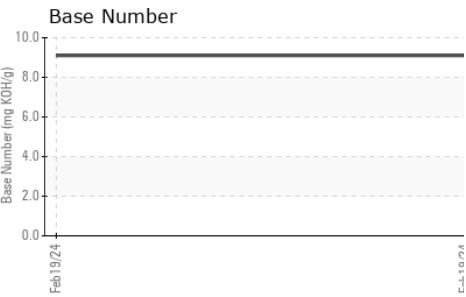
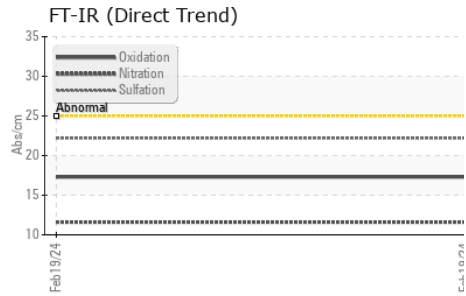
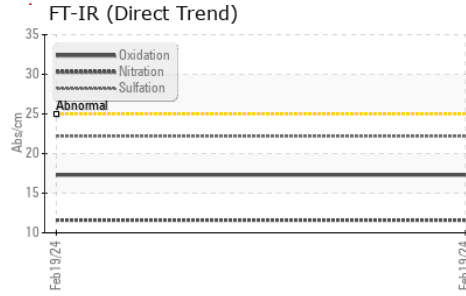
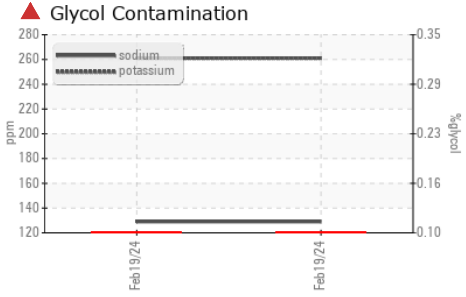
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.3	---	---
Nitration	Abs/cm	*ASTM D7624 >20	11.6	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.2	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.3	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.1	---	---

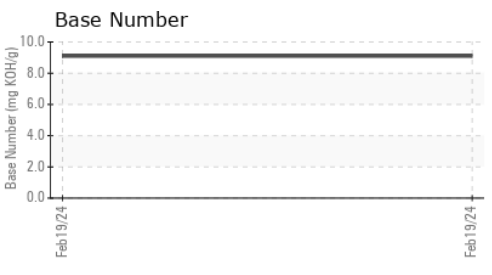
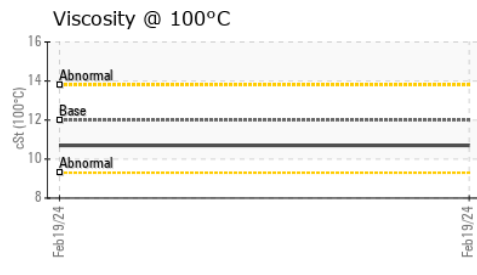
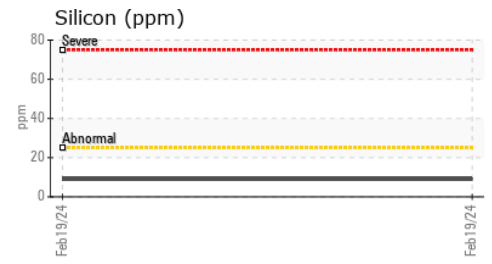
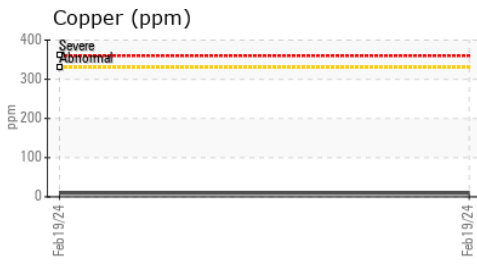
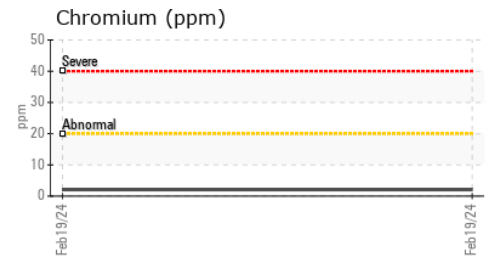
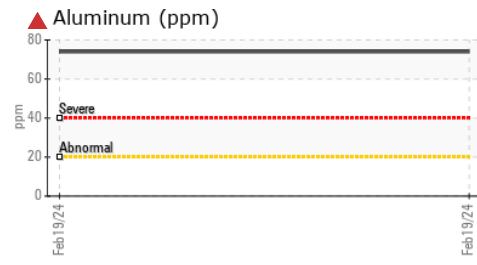
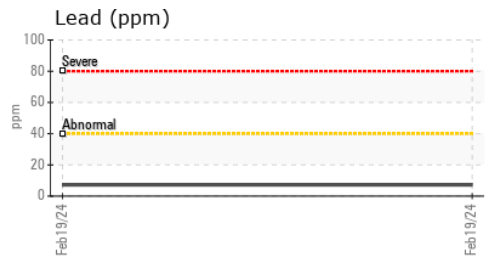
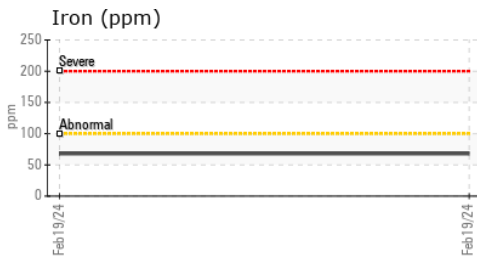
OIL ANALYSIS REPORT



PARAMETER	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	---

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.7	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111435 **Received** : 22 May 2024
Lab Number : 06188386 **Tested** : 24 May 2024
Unique Number : 11045138 **Diagnosed** : 24 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol, TBN)

MILLER TRUCK LEASING #128
 529 CEDAR LN
 FLORENCE, NJ
 US 08518
 Contact: PETER SHEPARD
 pshepard@millertransgroup.com
 T: (609)499-3601
 F:

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)