



Area  
**(3130697) Dairy Farms of America-Tractor**  
Machine Id  
**[Dairy Farms of America-Tractor] 268A722018**

Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

**RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0103925</b>	---	---
Sample Date		Client Info		<b>01 Dec 2023</b>	---	---
Machine Age	mls	Client Info		<b>201785</b>	---	---
Oil Age	mls	Client Info		<b>40000</b>	---	---
Filter Age	mls	Client Info		<b>40000</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>18</b>	---	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	---	---
Lead	ppm	ASTM D5185m	>30	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>150	<b>7</b>	---	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

There is no indication of any contamination in the oil.

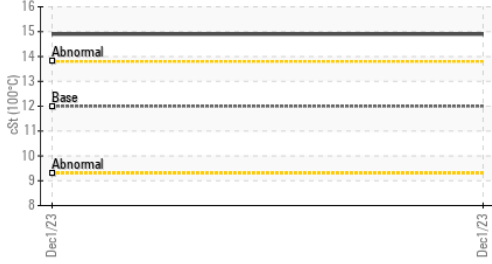
Silicon	ppm	ASTM D5185m	>20	<b>6</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	---	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.4</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.2</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

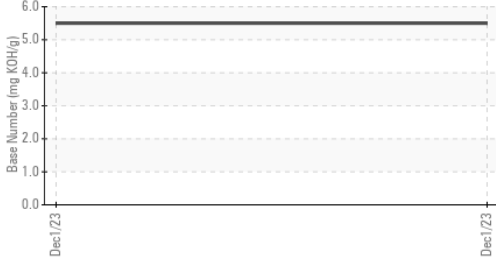
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Boron	ppm	ASTM D5185m	2	<b>103</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	50	<b>98</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	950	<b>512</b>	---	---
Calcium	ppm	ASTM D5185m	1050	<b>1340</b>	---	---
Phosphorus	ppm	ASTM D5185m	995	<b>713</b>	---	---
Zinc	ppm	ASTM D5185m	1180	<b>848</b>	---	---
Sulfur	ppm	ASTM D5185m	2600	<b>2223</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.0</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.5</b>	---	---
Visc @ 100°C	cSt	ASTM D445	12.00	<b>▲ 14.9</b>	---	---

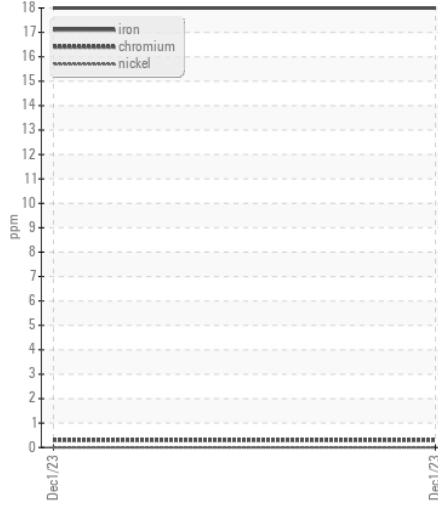
▲ Viscosity @ 100°C



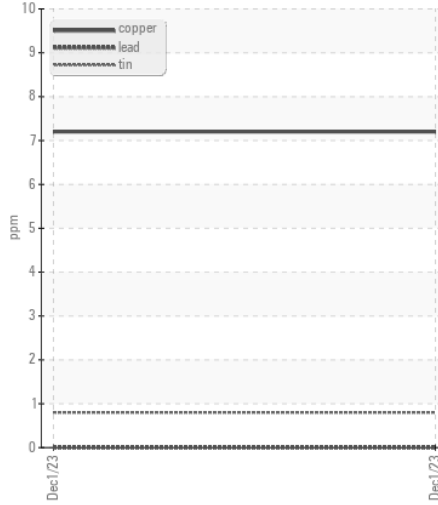
Base Number



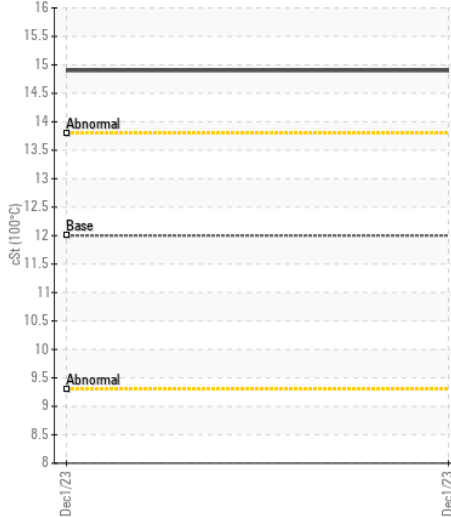
Ferrous Alloys



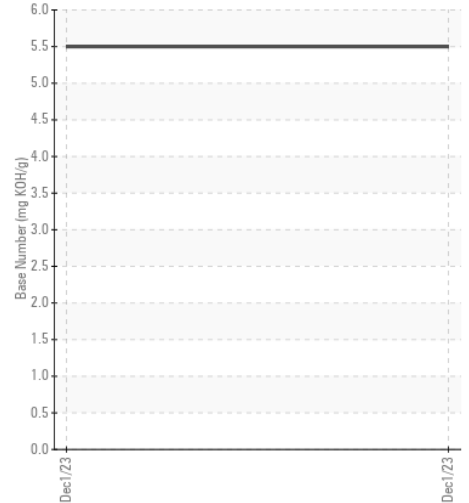
Non-ferrous Metals



▲ Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103925 **Received** : 01 Feb 2024  
**Lab Number** : 06077510 **Diagnosed** : 04 Feb 2024  
**Unique Number** : 10859601 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**Transervice - Shop 2680 - LeMars**

1330 12th Ave SW  
 LeMars, IA  
 US 51031

Contact: Stacey Rabey  
 srabey@transervice.com

T: (712)501-9908

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)