

PROBLEM SUMMARY

Sample Rating Trend

DEGRADATION



Area
(2847693) Dairy Farms of America-Tractor
 Machine Id
[Dairy Farms of America-Tractor] 268A23311
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

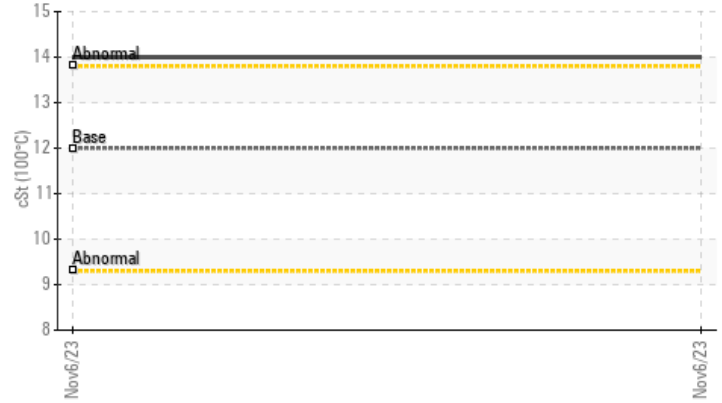


COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Viscosity @ 100°C



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	Unit	ASTM	Value	ABNORMAL	---	---
Lead	ppm	ASTM D5185m	>40	▲ 49	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 2.7	---	---
Visc @ 100°C	cSt	ASTM D445	12.00	▲ 14.0	---	---

Customer Id: TSV2680
 Sample No.: PCA0108284
 Lab Number: 06008999
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

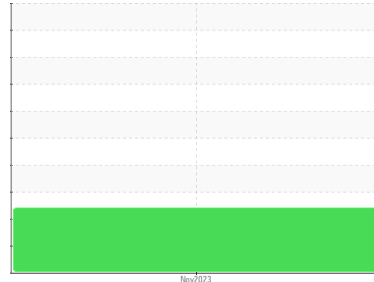
HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area
(2847693) Dairy Farms of America-Tractor
 Machine Id
[Dairy Farms of America-Tractor] 268A23311
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)



DIAGNOSIS

- Recommendation**
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
 The lead level is abnormal. All other component wear rates are normal.
- Contamination**
 There is no indication of any contamination in the oil.
- Fluid Condition**
 The oil viscosity is higher than normal. The BN level is low.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0108284	---	---
Sample Date	Client Info		06 Nov 2023	---	---
Machine Age	mls Client Info		718129	---	---
Oil Age	mls Client Info		40000	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.0	<1.0	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	53	---	---
Chromium	ppm ASTM D5185m	>20	2	---	---
Nickel	ppm ASTM D5185m	>4	0	---	---
Titanium	ppm ASTM D5185m		<1	---	---
Silver	ppm ASTM D5185m	>3	0	---	---
Aluminum	ppm ASTM D5185m	>20	7	---	---
Lead	ppm ASTM D5185m	>40	▲ 49	---	---
Copper	ppm ASTM D5185m	>330	4	---	---
Tin	ppm ASTM D5185m	>15	<1	---	---
Vanadium	ppm ASTM D5185m		0	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	40	---	---
Barium	ppm ASTM D5185m	0	0	---	---
Molybdenum	ppm ASTM D5185m	50	106	---	---
Manganese	ppm ASTM D5185m	0	1	---	---
Magnesium	ppm ASTM D5185m	950	671	---	---
Calcium	ppm ASTM D5185m	1050	1590	---	---
Phosphorus	ppm ASTM D5185m	995	886	---	---
Zinc	ppm ASTM D5185m	1180	1097	---	---
Sulfur	ppm ASTM D5185m	2600	2777	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	7	---	---
Sodium	ppm ASTM D5185m		3	---	---
Potassium	ppm ASTM D5185m	>20	3	---	---

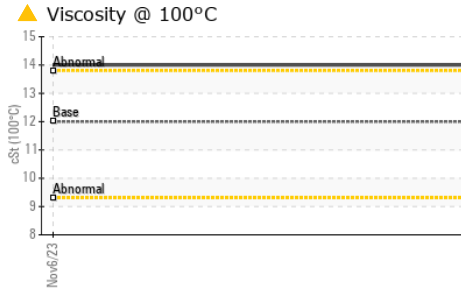
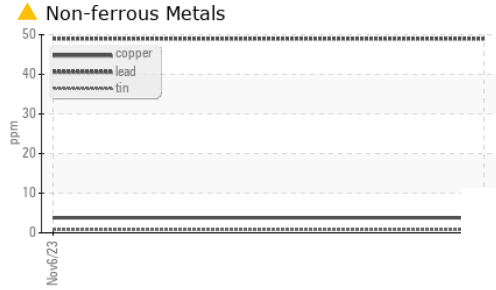
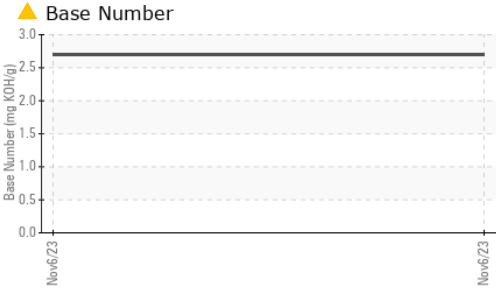
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.9	---	---
Nitration	Abs/cm *ASTM D7624	>20	11.0	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	26.6	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	23.9	---	---
Base Number (BN)	mg KOH/g ASTM D2896		▲ 2.7	---	---

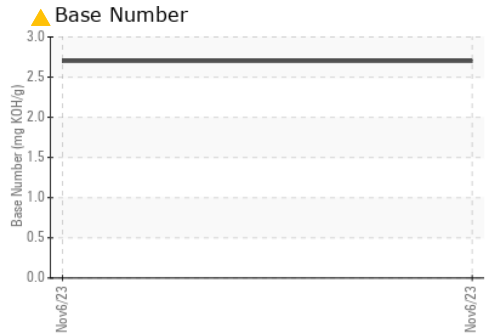
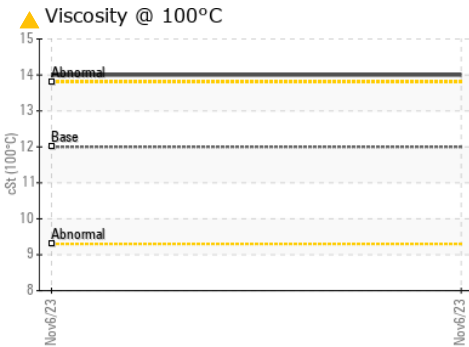
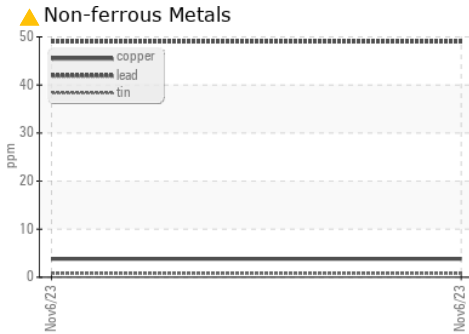
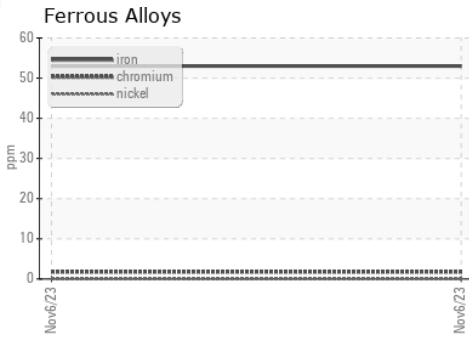
OIL ANALYSIS REPORT



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	▲ 14.0	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PCA0108284 Received : 15 Nov 2023
 Lab Number : 06008999 Diagnosed : 18 Nov 2023
 Unique Number : 10742761 Diagnostician : Don Baldrige
 Test Package : FLEET

Transervice - Shop 2680 - LeMars
 1330 12th Ave SW
 LeMars, IA
 US 51031
 Contact: Stacey Rabey
 srabey@transervice.com
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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)