



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
(2432779) Dairy Farms of America-Tractor
Machine Id
[Dairy Farms of America-Tractor] 268A26303
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		PCA0103921	PCA0108280	---
Sample Date		Client Info		09 Apr 2024	06 Oct 2023	---
Machine Age	mls	Client Info		539163	500730	---
Oil Age	mls	Client Info		40000	30000	---
Filter Age	mls	Client Info		40000	30000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	23	23	---
Chromium	ppm	ASTM D5185m	>5	<1	<1	---
Nickel	ppm	ASTM D5185m	>2	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>30	9	10	---
Lead	ppm	ASTM D5185m	>30	0	0	---
Copper	ppm	ASTM D5185m	>150	3	2	---
Tin	ppm	ASTM D5185m	>5	<1	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

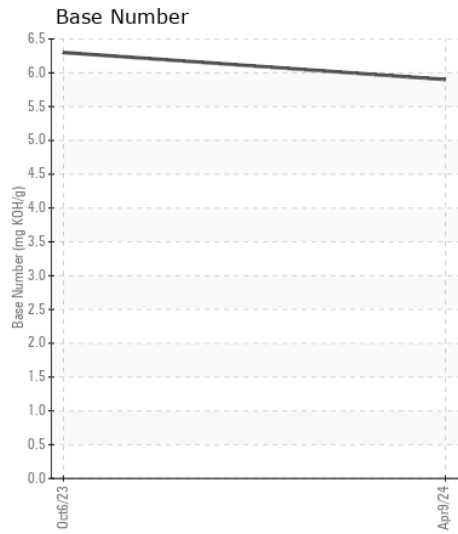
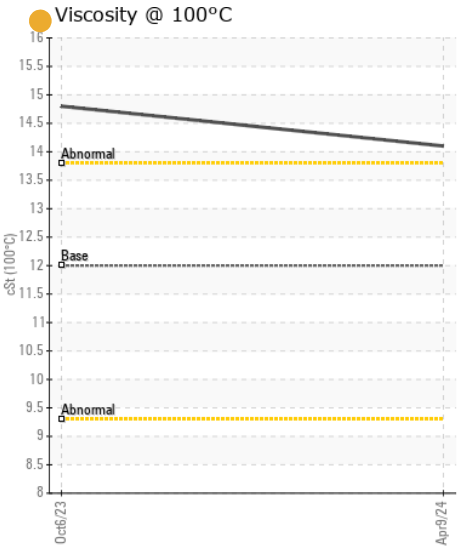
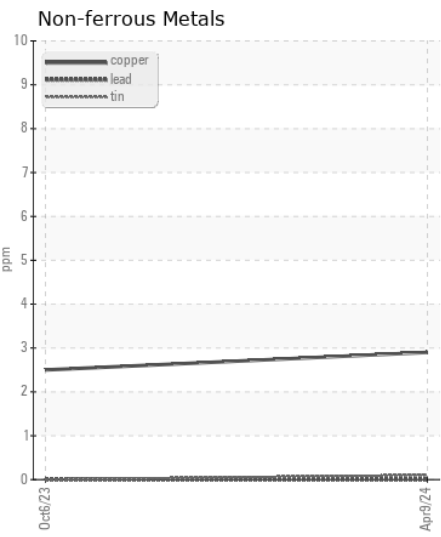
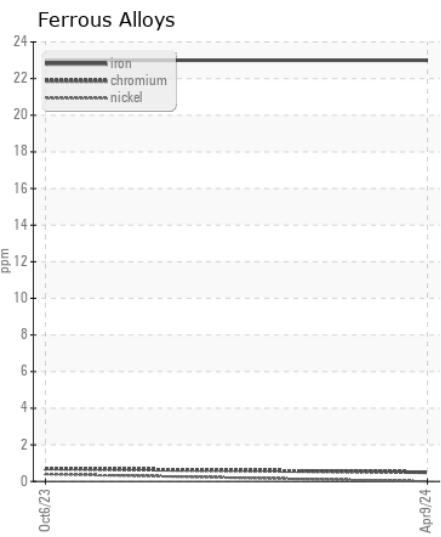
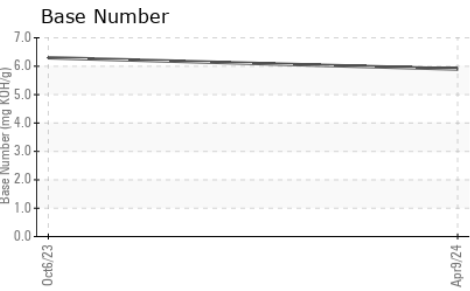
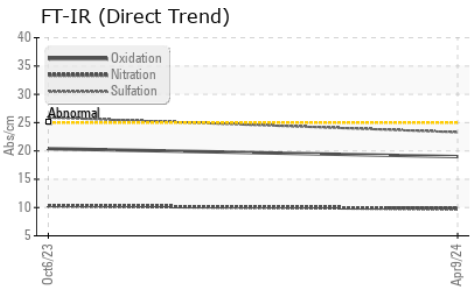
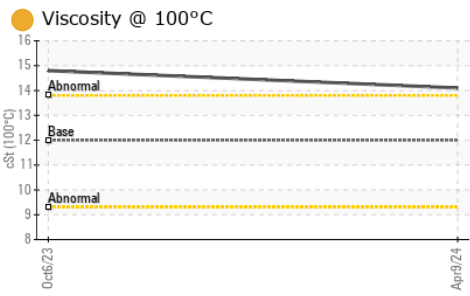
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	7	---
Potassium	ppm	ASTM D5185m	>20	1	3	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.9	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	25.9	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	<1	---
Boron	ppm	ASTM D5185m	2	9	105	---
Barium	ppm	ASTM D5185m	0	0	7	---
Molybdenum	ppm	ASTM D5185m	50	70	134	---
Manganese	ppm	ASTM D5185m	0	<1	<1	---
Magnesium	ppm	ASTM D5185m	950	883	681	---
Calcium	ppm	ASTM D5185m	1050	1129	1788	---
Phosphorus	ppm	ASTM D5185m	995	958	991	---
Zinc	ppm	ASTM D5185m	1180	1204	1147	---
Sulfur	ppm	ASTM D5185m	2600	3067	3829	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	20.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.9	6.3	---
Visc @ 100°C	cSt	ASTM D445	12.00	14.1	14.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PCA0103921
 Lab Number : 06158877
 Unique Number : 10994300
 Test Package : FLEET

Received : 24 Apr 2024
 Tested : 25 Apr 2024
 Diagnosed : 26 Apr 2024 - Jonathan Hester

Transervice - Shop 2680 - LeMars
 1330 12th Ave SW
 LeMars, IA
 US 51031

Contact: Stacey Rabey
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 T: (712)501-9908

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)

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