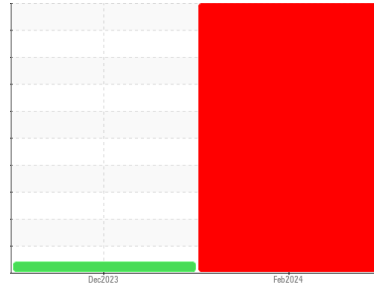


PROBLEM SUMMARY

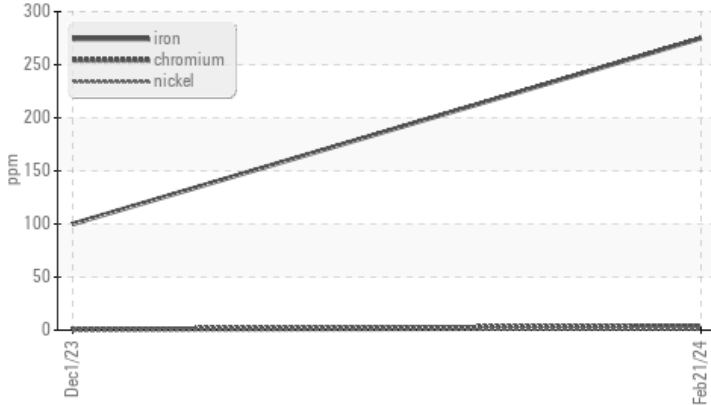
Area
Dairy Farms of America-Yard Horse
 Machine Id
[Dairy Farms of America-Yard Horse] 268A25151
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

Sample Rating Trend

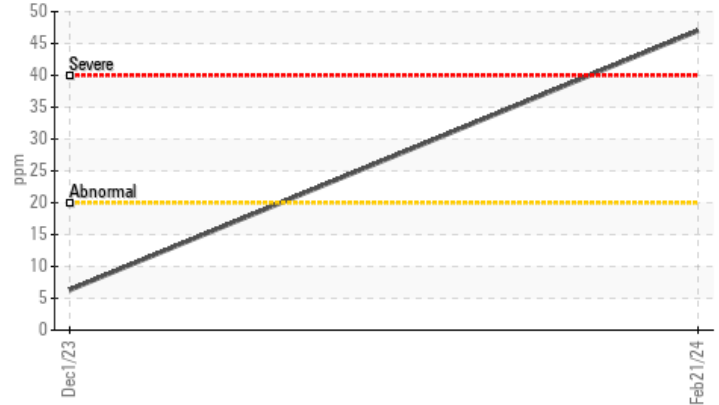


COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Aluminum (ppm)



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ATTENTION	---
Iron	ppm	ASTM D5185m	>100	▲ 275	100	---
Aluminum	ppm	ASTM D5185m	>20	▲ 47	6	---

Customer Id: TSV2680
 Sample No.: PCA0103934
 Lab Number: 06100695
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

01 Dec 2023 Diag: Don Baldrige

VISCOSITY



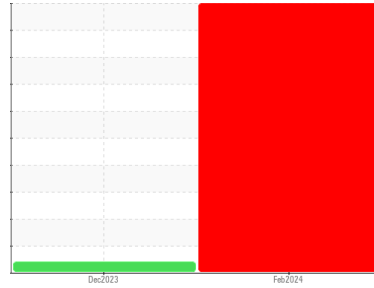
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
Dairy Farms of America-Yard Horse
 Machine Id
[Dairy Farms of America-Yard Horse] 268A25151
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Piston, ring and cylinder wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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		PCA0103934	PCA0108286	---
Sample Date	Client Info		21 Feb 2024	01 Dec 2023	---
Machine Age	hrs	Client Info	21474	20788	---
Oil Age	hrs	Client Info	800	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			SEVERE	ATTENTION	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	▲ 275	100	---
Chromium	ppm	ASTM D5185m >20	4	<1	---
Nickel	ppm	ASTM D5185m >4	1	0	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m >3	0	0	---
Aluminum	ppm	ASTM D5185m >20	▲ 47	6	---
Lead	ppm	ASTM D5185m >40	3	0	---
Copper	ppm	ASTM D5185m >330	9	5	---
Tin	ppm	ASTM D5185m >15	<1	<1	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	9	39	---
Barium	ppm	ASTM D5185m 0	0	0	---
Molybdenum	ppm	ASTM D5185m 50	60	58	---
Manganese	ppm	ASTM D5185m 0	2	<1	---
Magnesium	ppm	ASTM D5185m 950	888	565	---
Calcium	ppm	ASTM D5185m 1050	1064	861	---
Phosphorus	ppm	ASTM D5185m 995	967	689	---
Zinc	ppm	ASTM D5185m 1180	1186	813	---
Sulfur	ppm	ASTM D5185m 2600	2733	3413	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	11	10	---
Sodium	ppm	ASTM D5185m	4	1	---
Potassium	ppm	ASTM D5185m >20	6	6	---

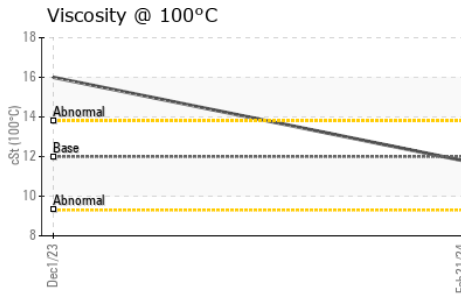
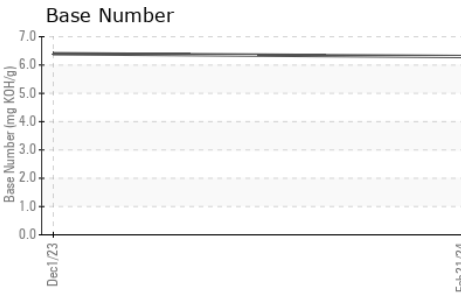
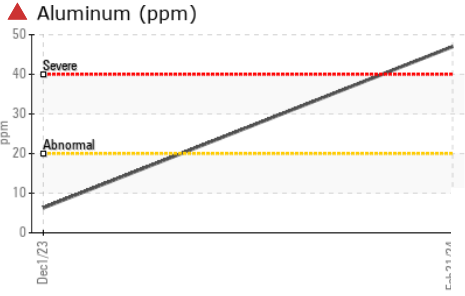
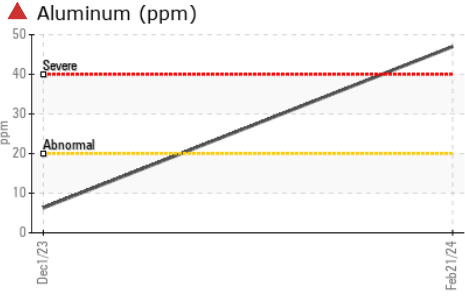
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	2.7	2	---
Nitration	Abs/cm	*ASTM D7624 >20	16.1	11.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	26.8	23.4	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	25.2	18.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	6.3	6.4	---

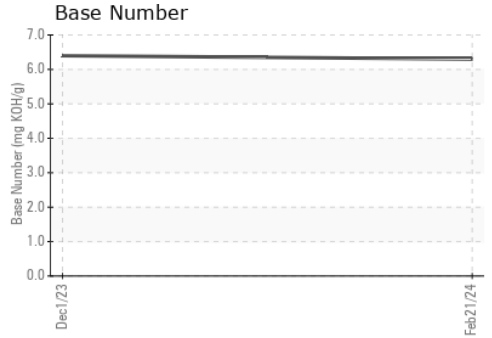
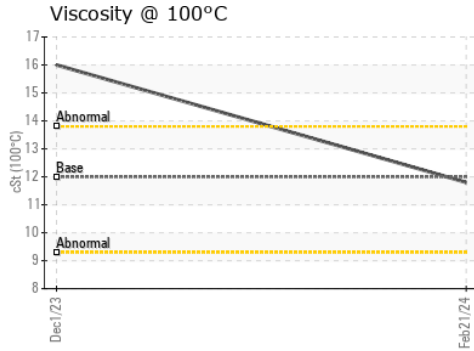
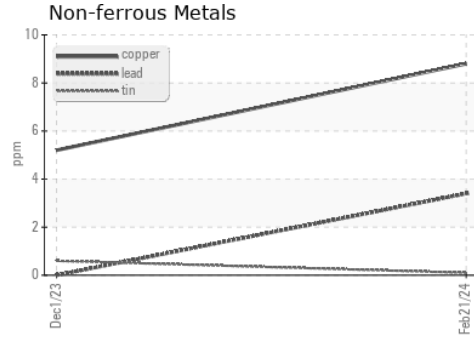
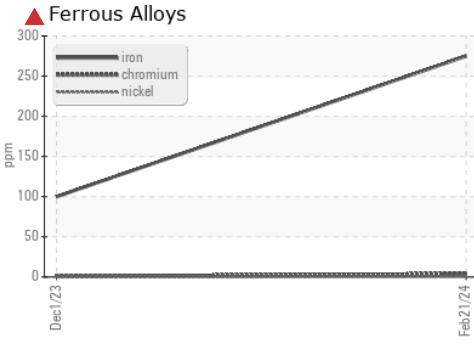
OIL ANALYSIS REPORT



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	12.00	11.8	16.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103934 **Received** : 26 Feb 2024
Lab Number : 06100695 **Tested** : 27 Feb 2024
Unique Number : 10898925 **Diagnosed** : 28 Feb 2024 - Sean Felton
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)