



WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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)

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.

Test	UOM	Method	Limit/Abn	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	---
Filter Age	hrs	Client Info		800	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				SEVERE	ATTENTION	---

WEAR

Piston, ring and cylinder wear is indicated.

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	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

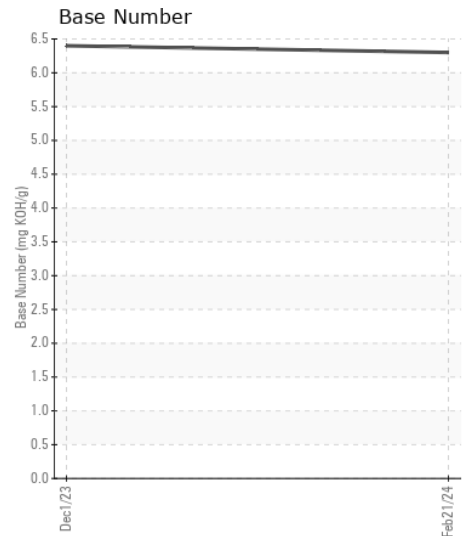
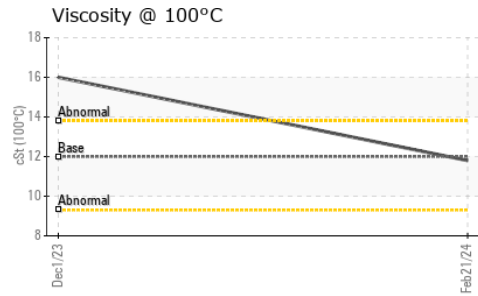
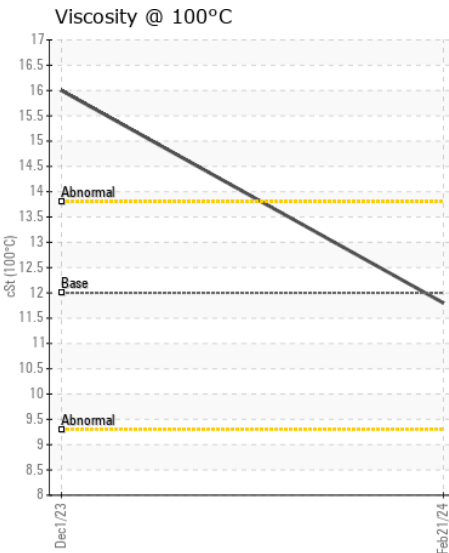
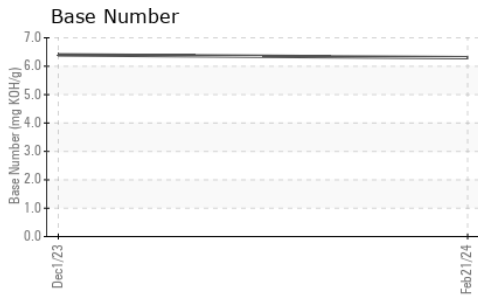
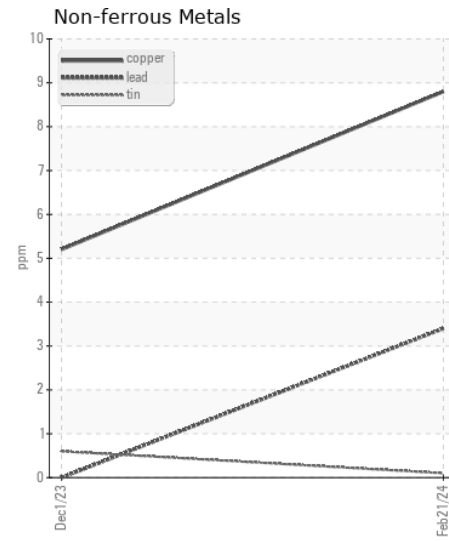
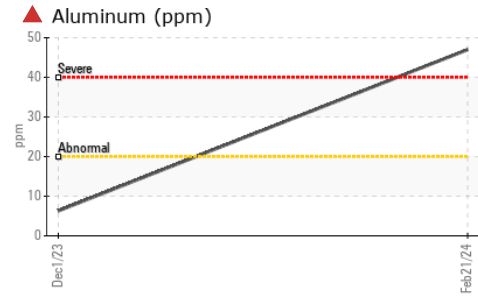
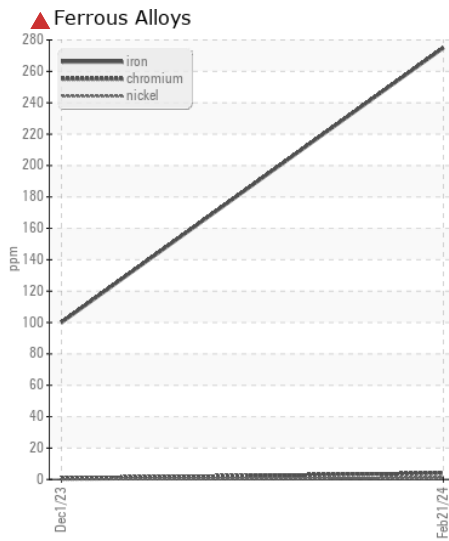
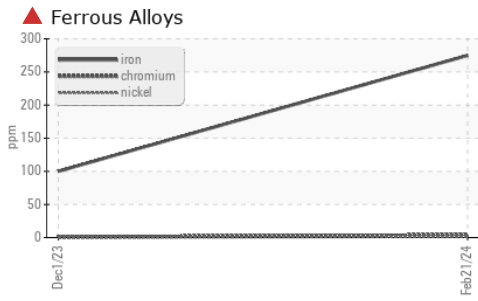
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	11	10	---
Potassium	ppm	ASTM D5185m	>20	6	6	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
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	---
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 is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		4	1	---
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	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.2	18.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	6.4	---
Visc @ 100°C	cSt	ASTM D445	12.00	11.8	● 16.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103934
Lab Number : 06100695
Unique Number : 10898925
Test Package : FLEET

Received : 26 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 28 Feb 2024 - Sean Felton

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

Contact: Stacey Rabey
 srabey@transervice.com

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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