

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Area
(3333181) Dairy Farms of America-Tractor
 Machine Id
[Dairy Farms of America-Tractor] 268A23319
 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. We recommend an early resample to monitor this condition.
- ▲ Wear**
 The lead level is abnormal. Bearing and/or bushing wear is indicated.
- ▲ Contamination**
 Sodium and/or potassium levels are high. Test for glycol is negative.
- ▲ 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0103931	---	---
Sample Date	Client Info		12 Feb 2024	---	---
Machine Age	mls Client Info		464499	---	---
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	---	---
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	56	---	---
Chromium	ppm ASTM D5185m	>20	4	---	---
Nickel	ppm ASTM D5185m	>4	<1	---	---
Titanium	ppm ASTM D5185m		0	---	---
Silver	ppm ASTM D5185m	>3	0	---	---
Aluminum	ppm ASTM D5185m	>20	5	---	---
Lead	ppm ASTM D5185m	>40	▲ 95	---	---
Copper	ppm ASTM D5185m	>330	10	---	---
Tin	ppm ASTM D5185m	>15	<1	---	---
Vanadium	ppm ASTM D5185m		<1	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	61	---	---
Barium	ppm ASTM D5185m	0	0	---	---
Molybdenum	ppm ASTM D5185m	50	115	---	---
Manganese	ppm ASTM D5185m	0	<1	---	---
Magnesium	ppm ASTM D5185m	950	889	---	---
Calcium	ppm ASTM D5185m	1050	1753	---	---
Phosphorus	ppm ASTM D5185m	995	1106	---	---
Zinc	ppm ASTM D5185m	1180	1349	---	---
Sulfur	ppm ASTM D5185m	2600	3339	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	7	---	---
Sodium	ppm ASTM D5185m		17	---	---
Potassium	ppm ASTM D5185m	>20	▲ 63	---	---
Glycol	% *ASTM D2982		NEG	---	---

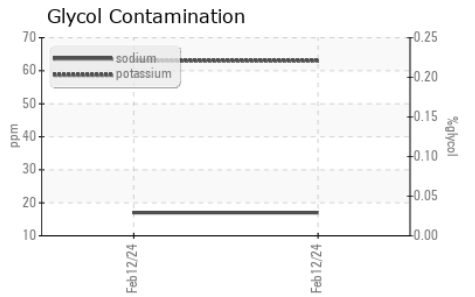
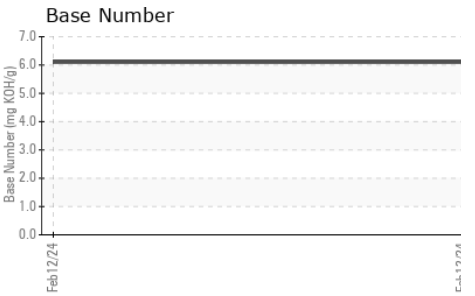
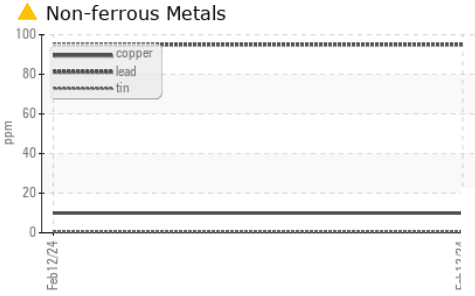
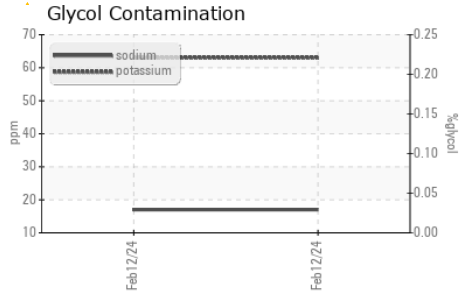
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.7	---	---
Nitration	Abs/cm *ASTM D7624	>20	14.3	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	31.5	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	30.8	---	---
Base Number (BN)	mg KOH/g ASTM D2896		6.1	---	---

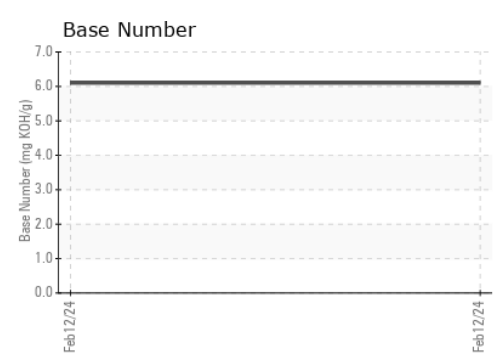
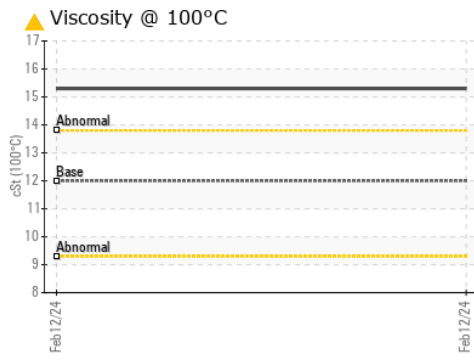
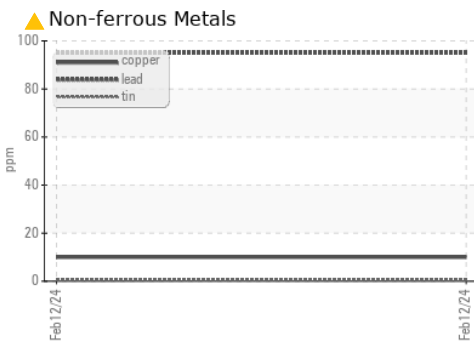
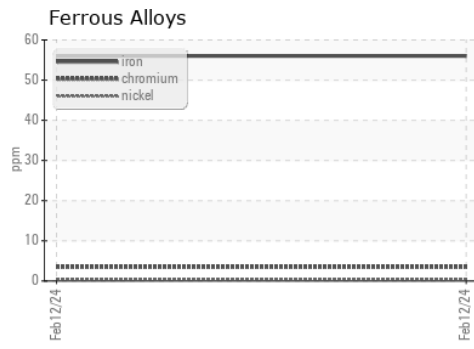
OIL ANALYSIS REPORT



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	▲ 15.3	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103931 **Received** : 26 Feb 2024
Lab Number : 06100696 **Tested** : 28 Feb 2024
Unique Number : 10898926 **Diagnosed** : 28 Feb 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

Transervice - Shop 2680 - LeMars
 1330 12th Ave SW
 LeMars, IA
 US 51031
 Contact: Stacey Rabey
 srabey@transervice.com
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Certificate L2367
 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)