



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

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. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0108294	PCA0108290	PCA0103934
Sample Date		Client Info		01 Jul 2024	23 Apr 2024	21 Feb 2024
Machine Age	hrs	Client Info		22706	22009	21474
Oil Age	hrs	Client Info		0	500	800
Filter Age	hrs	Client Info		0	500	800
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	65	57	▲ 275
Chromium	ppm	ASTM D5185m	>20	1	<1	4
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	7	▲ 47
Lead	ppm	ASTM D5185m	>40	<1	0	3
Copper	ppm	ASTM D5185m	>330	2	2	9
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

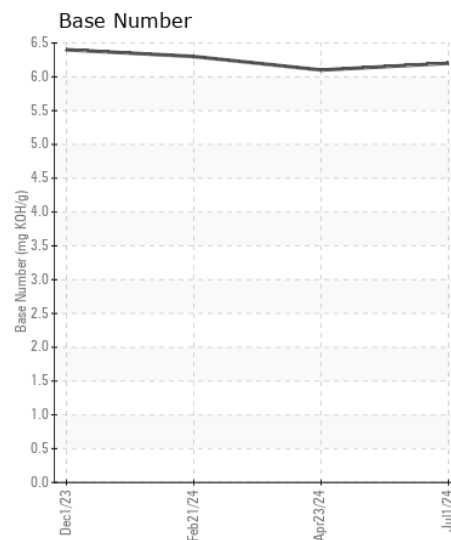
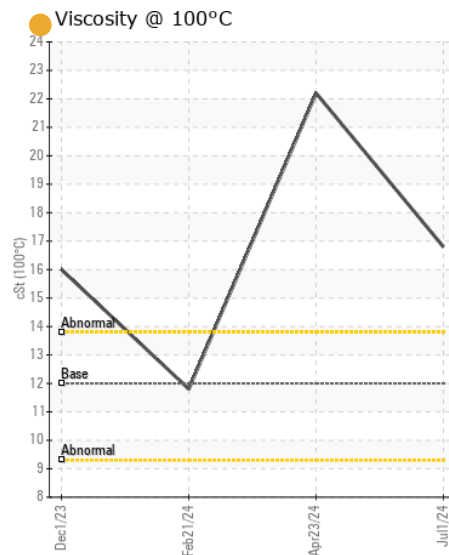
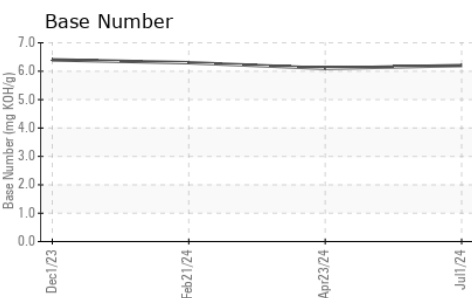
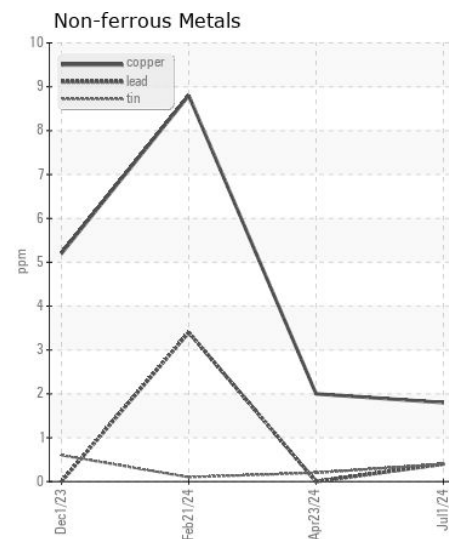
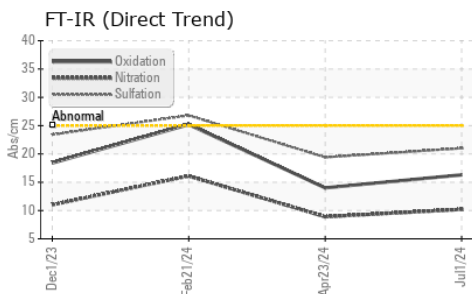
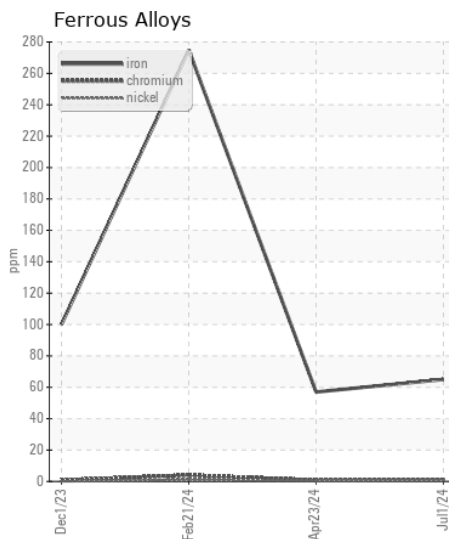
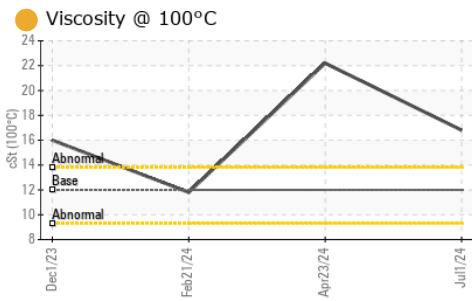
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	8	11
Potassium	ppm	ASTM D5185m	>20	11	2	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.5	1.3	2.7
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.9	16.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.4	26.8
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		6	<1	4
Boron	ppm	ASTM D5185m	2	3	4	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	47	37	60
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	950	648	472	888
Calcium	ppm	ASTM D5185m	1050	768	576	1064
Phosphorus	ppm	ASTM D5185m	995	687	510	967
Zinc	ppm	ASTM D5185m	1180	887	651	1186
Sulfur	ppm	ASTM D5185m	2600	2119	1662	2733
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	14.0	25.2
Base Number (BN)	mg KOH/g	ASTM D2896		6.2	6.1	6.3
Visc @ 100°C	cSt	ASTM D445	12.00	16.8	22.2	11.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0108294

Lab Number : 06232138

Unique Number : 11115631

Test Package : FLEET

Received : 10 Jul 2024

Tested : 11 Jul 2024

Diagnosed : 11 Jul 2024 - Don Baldrige

Transervice - Shop 2680 - LeMars

1330 12th Ave SW

LeMars, IA

US 51031

Contact: Stacey Rabey

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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)