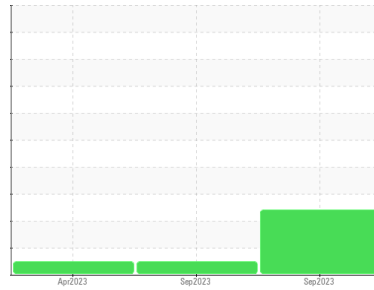




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
PEACOCK HILL DAIRY

Component
Hydraulic System

Fluid
ALPHA PREMIUM SKIDLOADER 10W30 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0861533	WC0843366	WC0610122
Sample Date	Client Info		29 Sep 2023	05 Sep 2023	18 Apr 2023
Machine Age	hrs	Client Info	700	400	0
Oil Age	hrs	Client Info	700	400	0
Oil Changed	Client Info		Not Chngd	Not Chngd	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	1	<1	<1
Chromium	ppm	ASTM D5185m >10	<1	<1	<1
Nickel	ppm	ASTM D5185m >10	0	0	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	3	0	<1
Lead	ppm	ASTM D5185m >10	<1	4	0
Copper	ppm	ASTM D5185m >75	<1	4	<1
Tin	ppm	ASTM D5185m >10	2	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	1	0
Molybdenum	ppm	ASTM D5185m	<1	<1	<1
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m 25	2	2	3
Calcium	ppm	ASTM D5185m 500	443	448	488
Phosphorus	ppm	ASTM D5185m 4000	3617	3598	4158
Zinc	ppm	ASTM D5185m 5000	4757	4596	5335
Sulfur	ppm	ASTM D5185m 10500	9949	9134	11313

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	2	3	2
Sodium	ppm	ASTM D5185m	3	<1	<1
Potassium	ppm	ASTM D5185m >20	<1	<1	<1

INFRA-RED

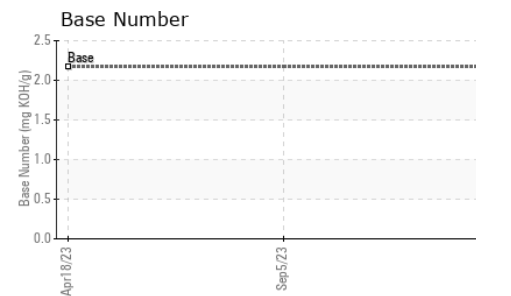
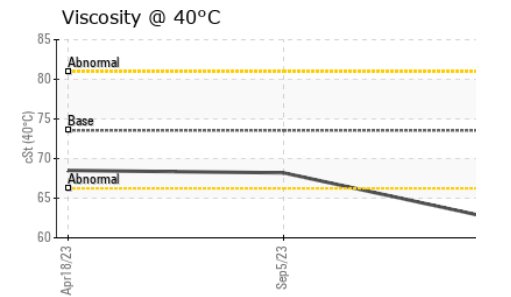
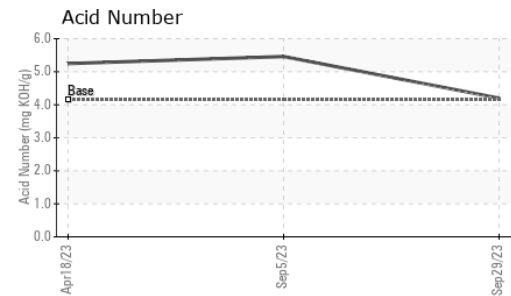
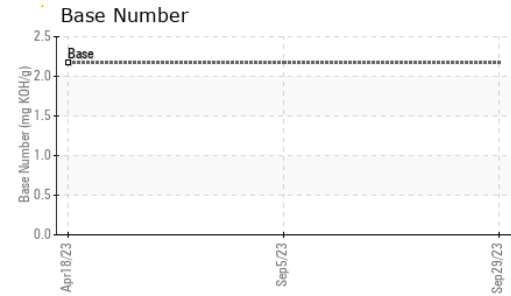
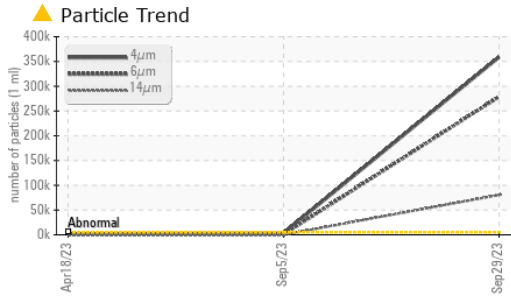
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	---	---
Nitration	Abs/cm	*ASTM D7624	2.2	---	---
Sulfation	Abs/.1mm	*ASTM D7415	33.2	---	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 358678	3211	2217
Particles >6µm	ASTM D7647	>1300	▲ 278810	776	484
Particles >14µm	ASTM D7647	>160	▲ 80434	68	43
Particles >21µm	ASTM D7647	>40	▲ 21000	24	9
Particles >38µm	ASTM D7647	>10	▲ 168	2	1
Particles >71µm	ASTM D7647	>3	3	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 26/25/24	19/17/13	18/16/13



OIL ANALYSIS REPORT

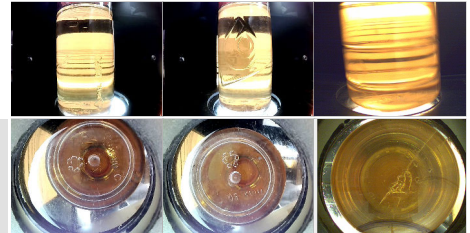


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	*ASTM D7414	30.4	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	4.20	5.46	5.247

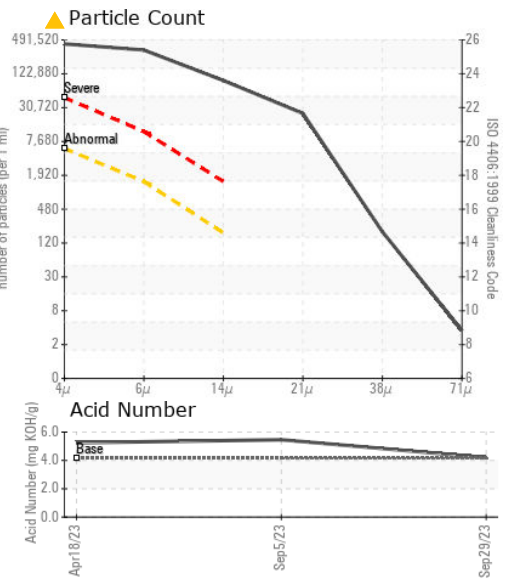
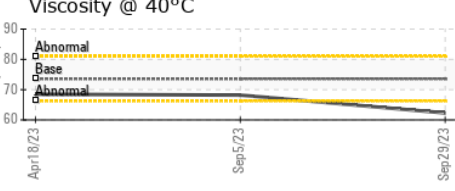
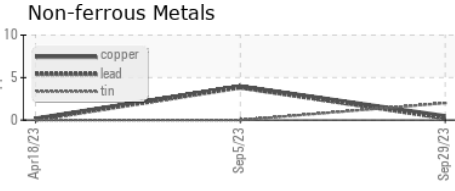
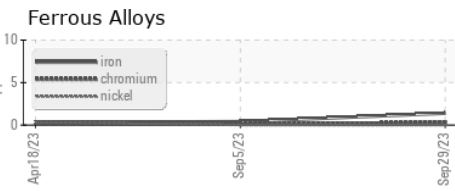
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	62.3	68.2	68.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0861533 Received : 04 Oct 2023
 Lab Number : 05968925 Diagnosed : 11 Oct 2023
 Unique Number : 10675476 Diagnostician : Doug Bogart
 Test Package : MOB 2 (Additional Tests: FT-IR, TBN)

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 WAVELAND, IN
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 PSS5070@YAHOO.COM
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 F: (765)344-1749

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)