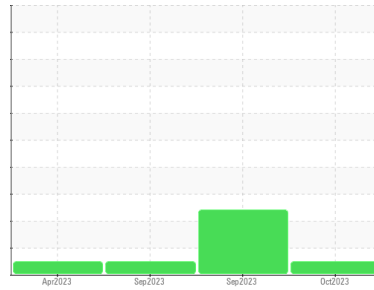




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
PEACOCK HILL DAIRY

Component
Hydraulic System

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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	WC0843372	WC0861533	WC0843366	
Sample Date	Client Info	18 Oct 2023	29 Sep 2023	05 Sep 2023	
Machine Age	hrs	Client Info	800	700	400
Oil Age	hrs	Client Info	800	700	400
Oil Changed	Client Info	Not Changed	Not Changd	Not Changed	
Sample Status		NORMAL	ABNORMAL	NORMAL	

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>20	0	1	<1
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	3	0
Lead	ppm	ASTM D5185m	>10	0	<1	4
Copper	ppm	ASTM D5185m	>75	<1	<1	4
Tin	ppm	ASTM D5185m	>10	0	2	0
Vanadium	ppm	ASTM D5185m		0	<1	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	0	1
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	0	2	2
Calcium	ppm	ASTM D5185m	500	419	443	448
Phosphorus	ppm	ASTM D5185m	4000	3396	3617	3598
Zinc	ppm	ASTM D5185m	5000	4550	4757	4596
Sulfur	ppm	ASTM D5185m	10500	8087	9949	9134

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>20	2	2	3
Sodium	ppm	ASTM D5185m		<1	3	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1

INFRA-RED

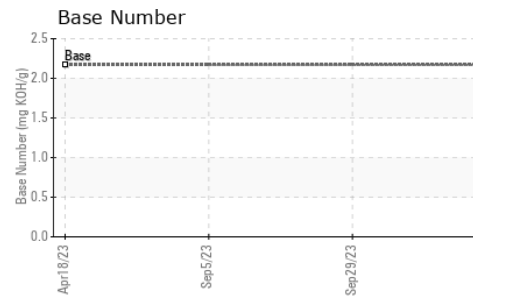
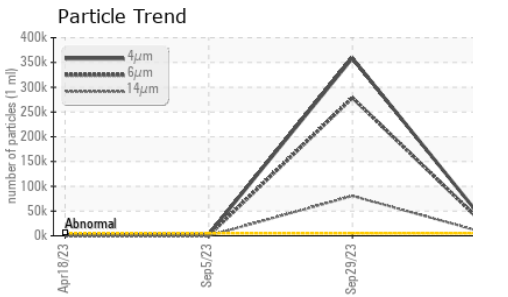
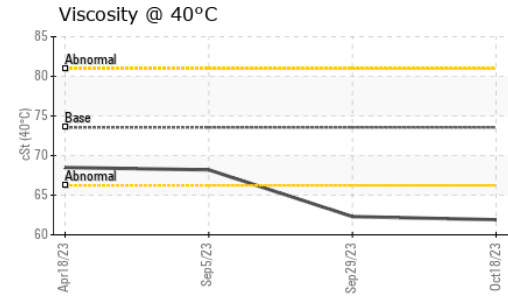
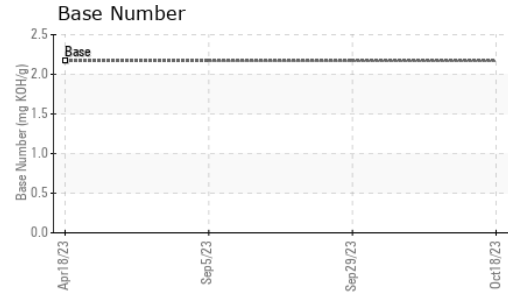
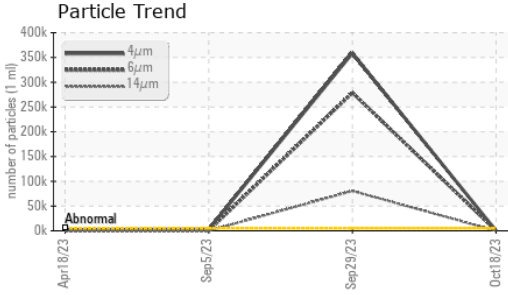
method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624		2.2	2.2	---
Sulfation	Abs/.1mm	*ASTM D7415		34.4	33.2	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	268	▲ 358678	3211
Particles >6µm	ASTM D7647	>1300	89	▲ 278810	776
Particles >14µm	ASTM D7647	>160	12	▲ 80434	68
Particles >21µm	ASTM D7647	>40	5	▲ 21000	24
Particles >38µm	ASTM D7647	>10	0	▲ 168	2
Particles >71µm	ASTM D7647	>3	0	3	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	15/14/11	▲ 26/25/24	19/17/13



OIL ANALYSIS REPORT



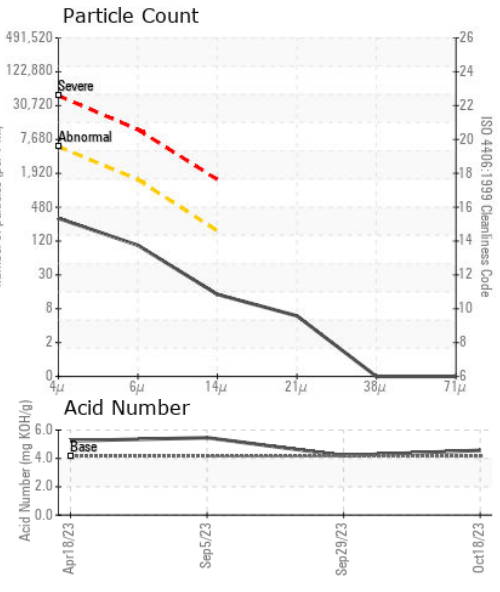
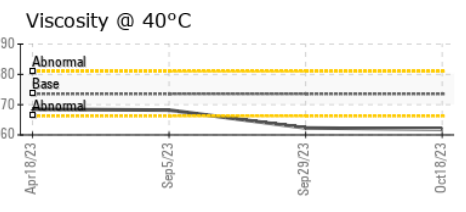
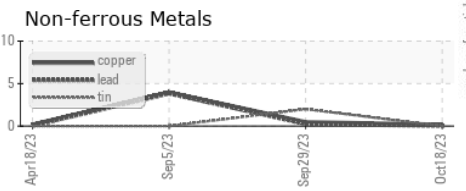
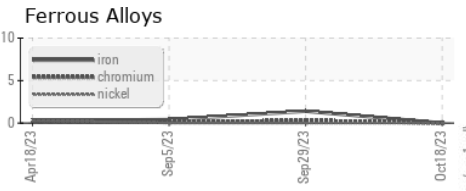
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	*ASTM D7414		31.5	30.4	---
Acid Number (AN)	mg KOH/g	ASTM D8045	4.15	4.57	4.20	5.46

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	73.55	61.9	62.3	68.2

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0843372 **Received** : 03 Nov 2023
Lab Number : 05998420 **Diagnosed** : 07 Nov 2023
Unique Number : 10726780 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FT-IR, TBN)
 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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