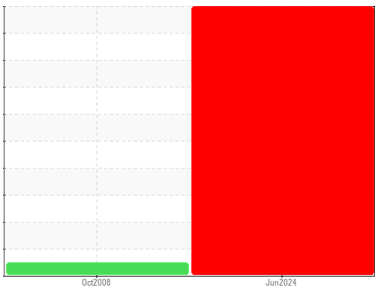
PROBLEM SUMMARY

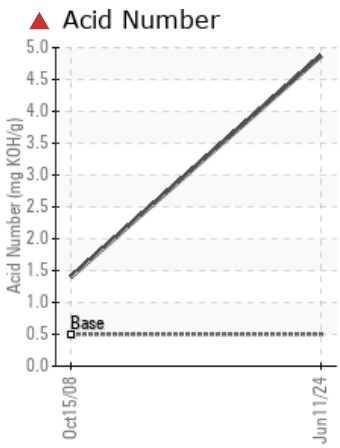
Sample Rating Trend

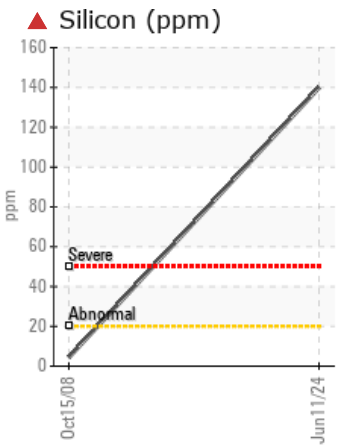


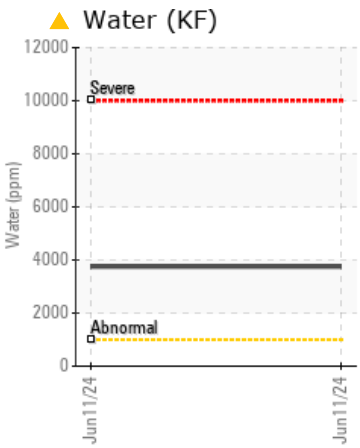
DIRT

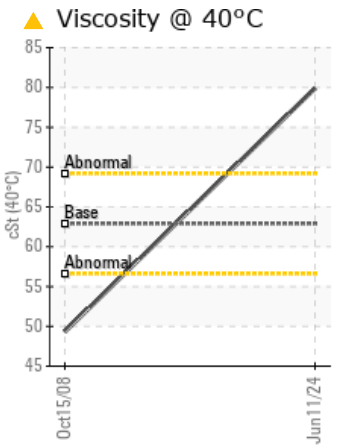
Area
Store 3 - Norton
Machine Id
NEW HYDRAULIC FLUID
Component
Hydraulic System
Fluid
CAM2 AW HYDRAULIC OIL ISO 68 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. (Customer Sample Comment: NEW OIL)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	---
Silicon	ppm	ASTM D5185m	>20	▲ **140**	4	---
Water	%	ASTM D6304	>0.1	▲ **0.375**	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ **3750**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.50	▲ **4.87**	1.40	---
Visc @ 40°C	cSt	ASTM D445	62.9	▲ **79.9**	49.33	---

Customer Id: LESMAROH
Sample No.: LEC0050058
Lab Number: 06208626
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

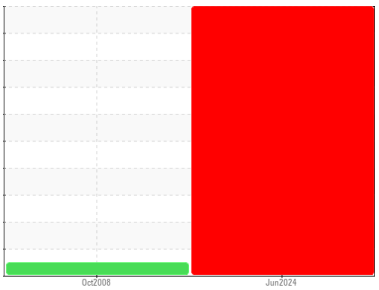
NORMAL

15 Oct 2008 Diag: Jonathan Hester
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The condition of oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Area
Store 3 - Norton
Machine Id
NEW HYDRAULIC FLUID
Component
Hydraulic System
Fluid
CAM2 AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

▲ Recommendation
We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. (Customer Sample Comment: NEW OIL)

Wear
All component wear rates are normal.

▲ Contamination
Appearance is unacceptable There is a moderate concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

▲ Fluid Condition
The oil viscosity is higher than normal. The AN level is above the recommended limit. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**LEC0050058**	LEC006899	---
Sample Date		Client Info		**11 Jun 2024**	15 Oct 2008	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**SEVERE**	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**18**	---	---
Iron	ppm	ASTM D5185m	>20	**6**	<1	---
Chromium	ppm	ASTM D5185m	>10	**0**	<1	---
Nickel	ppm	ASTM D5185m	>10	**0**	0	---
Titanium	ppm	ASTM D5185m		**<1**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>10	**4**	1	---
Lead	ppm	ASTM D5185m	>10	**2**	0	---
Copper	ppm	ASTM D5185m	>75	**<1**	0	---
Tin	ppm	ASTM D5185m	>10	**0**	0	---
Antimony	ppm	ASTM D5185m		**---**	<1	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

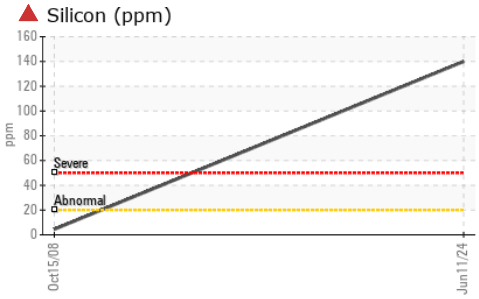
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**42**	2	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**42**	1	---
Manganese	ppm	ASTM D5185m		**<1**	0	---
Magnesium	ppm	ASTM D5185m		**122**	28	---
Calcium	ppm	ASTM D5185m		**4831**	2629	---
Phosphorus	ppm	ASTM D5185m		**2482**	1044	---
Zinc	ppm	ASTM D5185m		**2728**	1123	---
Sulfur	ppm	ASTM D5185m		**10182**	4797	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	▲ **140**	4	---
Sodium	ppm	ASTM D5185m		**38**	<1	---
Potassium	ppm	ASTM D5185m	>20	**133**	<1	---
Water	%	ASTM D6304	>0.1	▲ **0.375**	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ **3750**	---	---

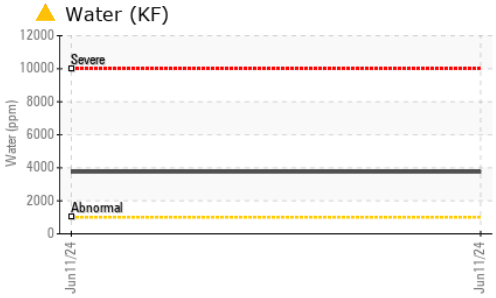
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	**731**	560	---
Particles >6µm	ASTM D7647	>1300	**398**	305	---
Particles >14µm	ASTM D7647	>160	**68**	52	---
Particles >21µm	ASTM D7647	>40	**23**	17	---
Particles >38µm	ASTM D7647	>10	**4**	2	---
Particles >71µm	ASTM D7647	>3	**0**	0	---
Oil Cleanliness	ISO 4406 (c)	>20/17/14	**17/16/13**	16/15/13	---

OIL ANALYSIS REPORT

Silicon (ppm)

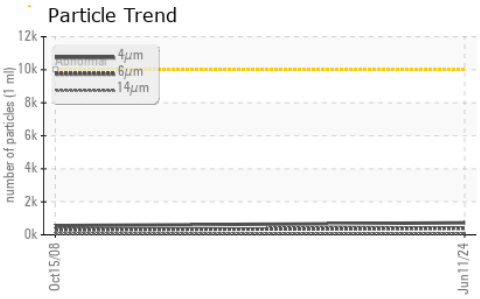


Water (KF)

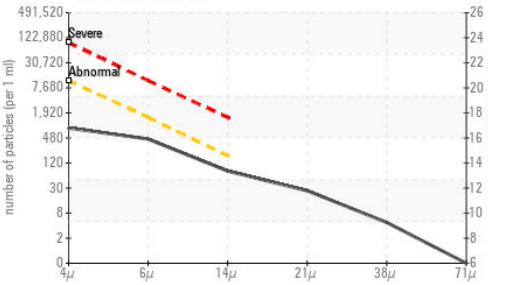


PQ

Particle Trend



Particle Count



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.50	▲ **4.87**	1.40	---

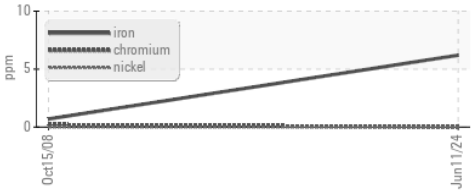
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	● **HAZY**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.1	**0.2%**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	62.9	▲ **79.9**	49.33	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

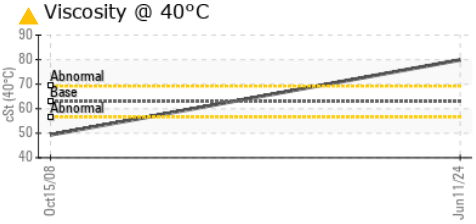
GRAPHS

Ferrous Alloys

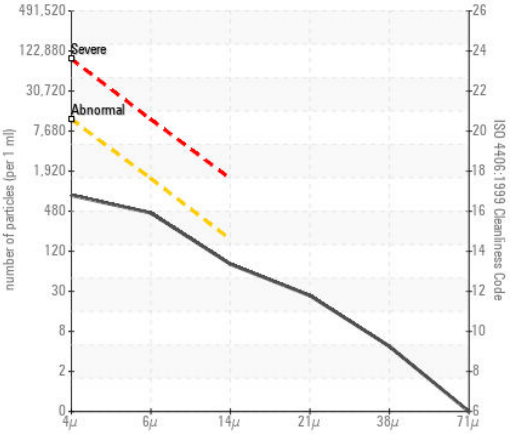


Non-ferrous Metals

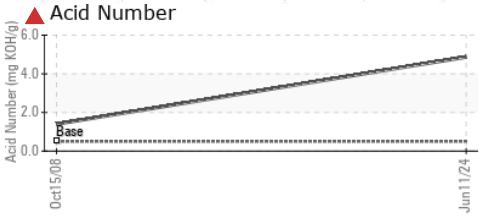
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050058
Lab Number : 06208626
Unique Number : 11076087
Test Package : CONST (Additional Tests: KF, PQ)

Received : 13 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Jonathan Hester

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)

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US 45750-9765
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Report Id: LESMAROH [WUSCAR] 06208626 (Generated: 06/24/2024 07:00:46) Rev: 1

Submitted By: STORE 3 - NORTON - BRIAN YOUTZY