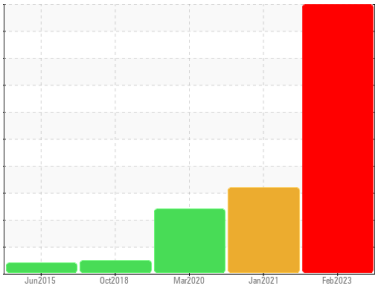
PROBLEM SUMMARY

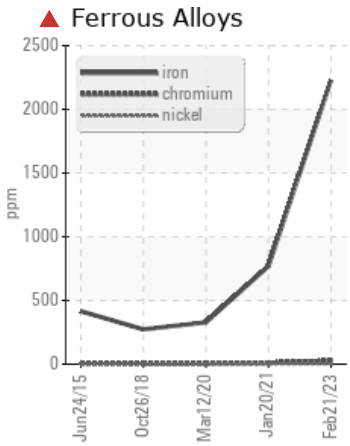
Area
KANSAS/44/EG - OTHER SERVICE
Machine Id
41.33W [KANSAS^44^EG - OTHER SERVICE]
Component
Right Final Drive
Fluid
MOBIL MOBILUBE HD PLUS 75W90 (--- GAL)

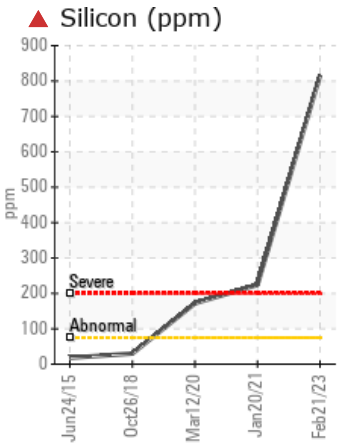
Sample Rating Trend

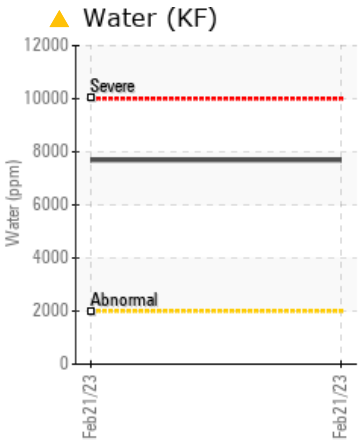


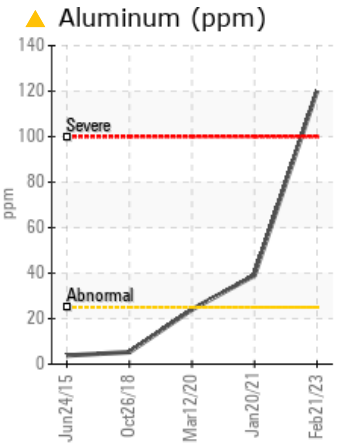
WEAR

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>500	▲ **2228**	▲ 770	328
Chromium	ppm	ASTM D5185m	>10	▲ **27**	10	4
Aluminum	ppm	ASTM D5185m	>25	▲ **120**	● 39	● 24
Silicon	ppm	ASTM D5185m	>75	▲ **816**	▲ 224	▲ 172
Water	%	ASTM D6304	>0.2	▲ **0.769**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **7690**	---	---

Customer Id: SHEWIC
Sample No.: WC0741725
Lab Number: 05777927
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@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
Resample	SKIPPED	Mar 02 2023	?	We recommend an early resample to monitor this condition.
Check Dirt Access	SKIPPED	Mar 02 2023	?	We advise that you check all areas where dirt can enter the system.
Check Water Access	SKIPPED	Mar 02 2023	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

20 Jan 2021 Diag: Jonathan Hester

DIRT

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report

12 Mar 2020 Diag: Jonathan Hester

DIRT

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report

26 Oct 2018 Diag: Jonathan Hester

NORMAL

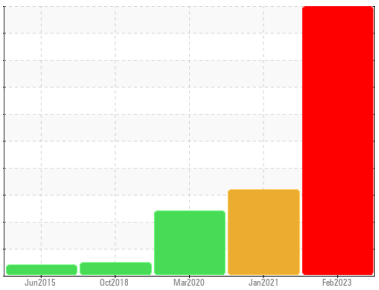
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Area
KANSAS/44/EG - OTHER SERVICE
Machine Id
41.33W [KANSAS^44^EG - OTHER SERVICE]
Component
Right Final Drive
Fluid
MOBIL MOBILUBE HD PLUS 75W90 (--- GAL)

Sample Rating Trend



WEAR

DIAGNOSIS

▲ Recommendation
We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

▲ Wear
Chromium and iron ppm levels are severe. Aluminum ppm levels are abnormal. Gear wear is indicated.

▲ Contamination
There is a moderate concentration of water present in the oil. High concentration of dirt present in the oil.

Fluid Condition
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0741725**	WC0528039	WC0434391
Sample Date		Client Info		**21 Feb 2023**	20 Jan 2021	12 Mar 2020
Machine Age	hrs	Client Info		**4408**	3130	2870
Oil Age	hrs	Client Info		**1278**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ **2228**	▲ 770	328
Chromium	ppm	ASTM D5185m	>10	▲ **27**	10	4
Nickel	ppm	ASTM D5185m		**2**	1	<1
Titanium	ppm	ASTM D5185m		**10**	2	1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ **120**	● 39	● 24
Lead	ppm	ASTM D5185m	>25	**<1**	<1	0
Copper	ppm	ASTM D5185m	>50	**3**	2	<1
Tin	ppm	ASTM D5185m	>10	**<1**	0	0
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

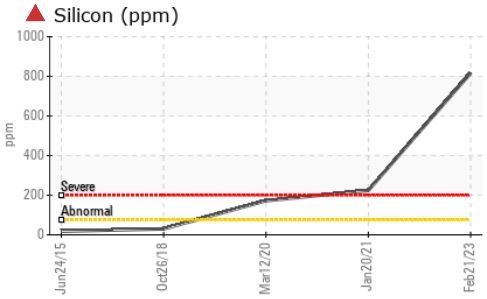
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**291**	273	236
Barium	ppm	ASTM D5185m		**2**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	<1	0
Manganese	ppm	ASTM D5185m		**19**	7	3
Magnesium	ppm	ASTM D5185m		**46**	13	12
Calcium	ppm	ASTM D5185m		**559**	203	610
Phosphorus	ppm	ASTM D5185m		**1553**	1370	1249
Zinc	ppm	ASTM D5185m		**24**	57	230
Sulfur	ppm	ASTM D5185m		**27075**	21673	17880

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **816**	▲ 224	▲ 172
Sodium	ppm	ASTM D5185m		**28**	8	4
Potassium	ppm	ASTM D5185m	>20	**72**	15	9
Water	%	ASTM D6304	>0.2	▲ **0.769**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **7690**	---	---

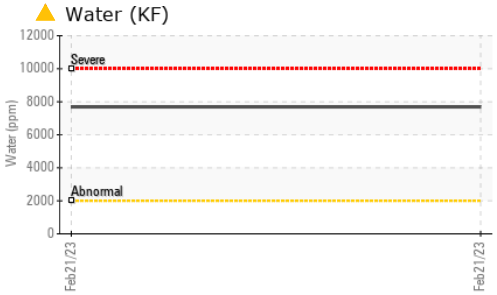
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

OIL ANALYSIS REPORT

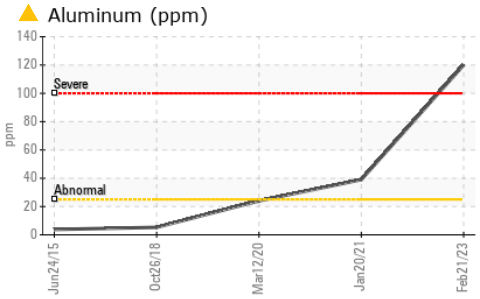
Silicon (ppm)



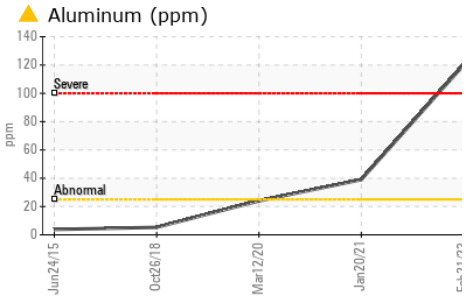
Water (KF)



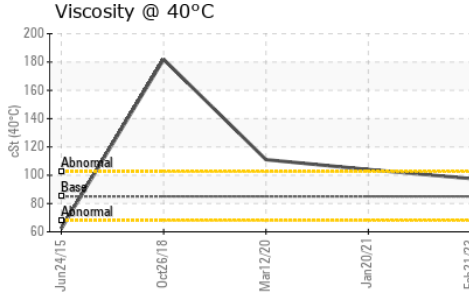
Aluminum (ppm)



Aluminum (ppm)



Viscosity @ 40°C

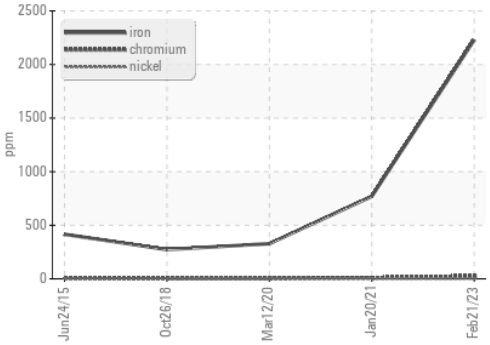


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	85	**97.6**	104	111

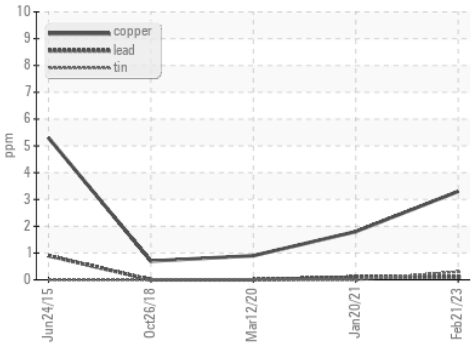
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

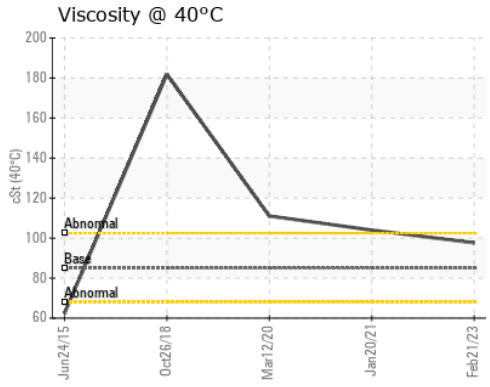
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0741725
Lab Number : 05777927
Unique Number : 10357597
Test Package : CONST (Additional Tests: KF)

Received : 27 Feb 2023
Tested : 28 Feb 2023
Diagnosed : 01 Mar 2023 - Angela Borella

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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