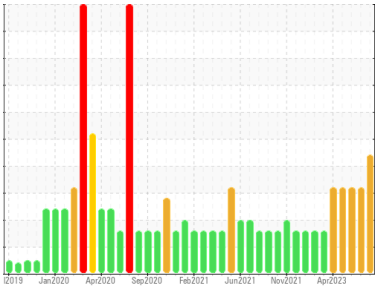
PROBLEM SUMMARY

Sample Rating Trend

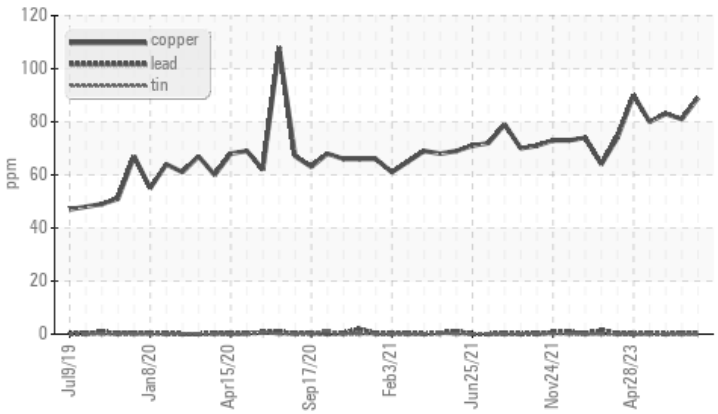


VISUAL METAL

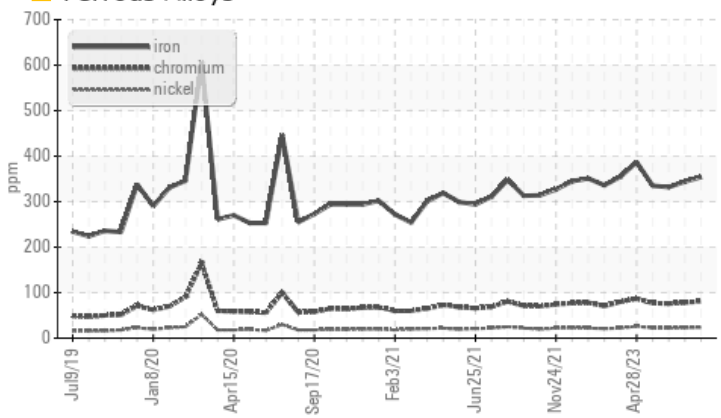
Area
CRM64
Machine Id
CRM 64 DIRTY OIL TANK (S/N 16-2300-1025)
Component
Tank Bulk Fluid Tank
Fluid
NOT GIVEN (59438 GAL)

COMPONENT CONDITION SUMMARY

Non-ferrous Metals



Ferrous Alloys



RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m		▲ **354**	▲ 344	▲ 332
Chromium	ppm	ASTM D5185m		▲ **81**	▲ 78	▲ 76
Nickel	ppm	ASTM D5185m		▲ **24**	▲ 23	▲ 22
Copper	ppm	ASTM D5185m		▲ **89**	▲ 81	▲ 83
White Metal	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE

Customer Id: OUTCALAL
Sample No.: RP0035348
Lab Number: 05964922
Test Package: IND 2

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
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

26 Jul 2023 Diag: Jonathan Hester

WEAR

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

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28 Jun 2023 Diag: Jonathan Hester

WEAR

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

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30 May 2023 Diag: Jonathan Hester

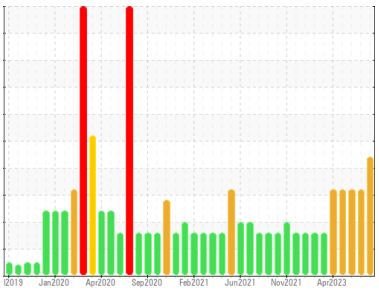
WEAR

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL

Area
CRM64
Machine Id
CRM 64 DIRTY OIL TANK (S/N 16-2300-1025)
Component
Tank Bulk Fluid Tank
Fluid
NOT GIVEN (59438 GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear
Moderate concentration of visible metal present. Bearing and/or gear wear is indicated.

Contamination
There is no indication of any contamination 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		**RP0035348**	RP0035602	RP0035359
Sample Date		Client Info		**27 Sep 2023**	26 Jul 2023	28 Jun 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ATTENTION	ATTENTION

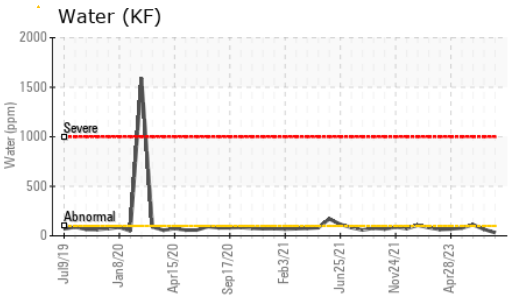
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**16**	15	11
Iron	ppm	ASTM D5185m		▲ **354**	▲ 344	▲ 332
Chromium	ppm	ASTM D5185m		▲ **81**	▲ 78	▲ 76
Nickel	ppm	ASTM D5185m		▲ **24**	▲ 23	▲ 22
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m		**5**	<1	<1
Lead	ppm	ASTM D5185m		**<1**	<1	0
Copper	ppm	ASTM D5185m		▲ **89**	▲ 81	▲ 83
Tin	ppm	ASTM D5185m		**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

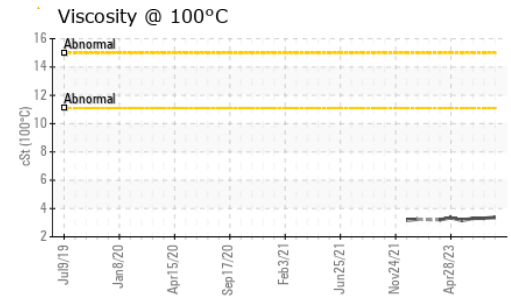
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	2	1
Manganese	ppm	ASTM D5185m		**17**	17	17
Magnesium	ppm	ASTM D5185m		**3**	<1	4
Calcium	ppm	ASTM D5185m		**7**	10	7
Phosphorus	ppm	ASTM D5185m		**990**	1005	996
Zinc	ppm	ASTM D5185m		**46**	50	45

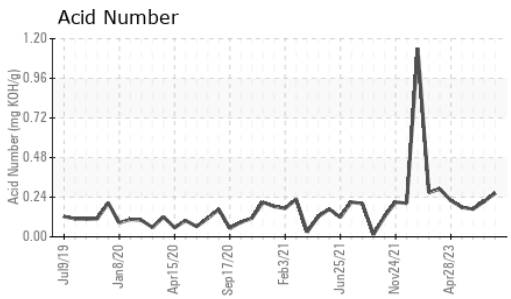
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**3**	3	2
Sodium	ppm	ASTM D5185m		**2**	1	2
Potassium	ppm	ASTM D5185m	>20	**0**	2	1
Water	%	ASTM D6304		**0.003**	0.006	0.011
ppm Water	ppm	ASTM D6304		**31.3**	65.9	112.0

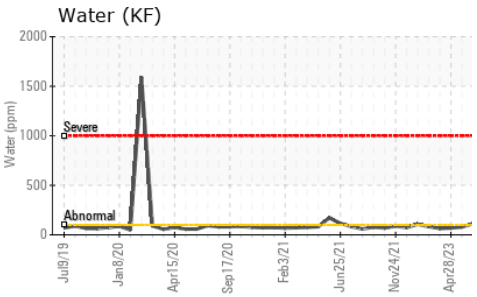
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.265**	0.213	0.168

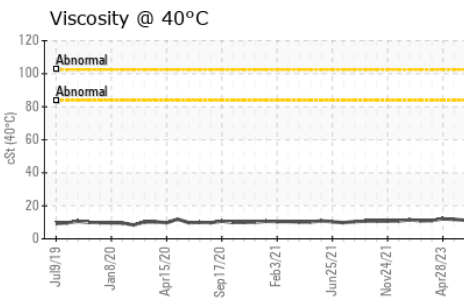
OIL ANALYSIS REPORT







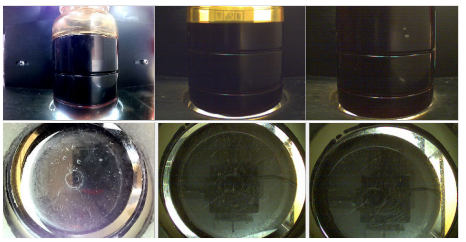




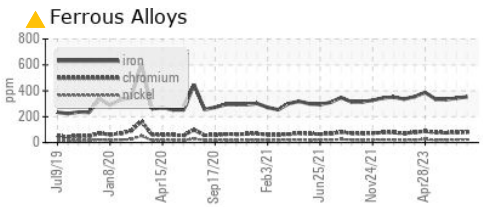
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Sand/Dirt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

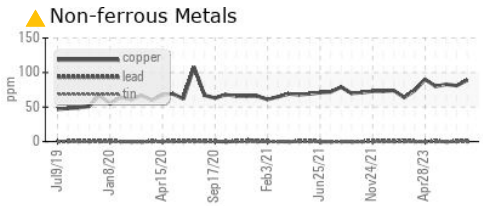
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**12.2**	12.00	11.2
Visc @ 100°C	cSt	ASTM D445		**3.37**	3.31	3.31
Viscosity Index (VI)	Scale	ASTM D2270		**159**	155	183

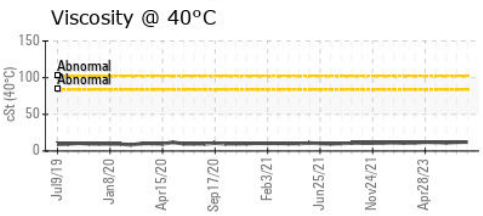
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

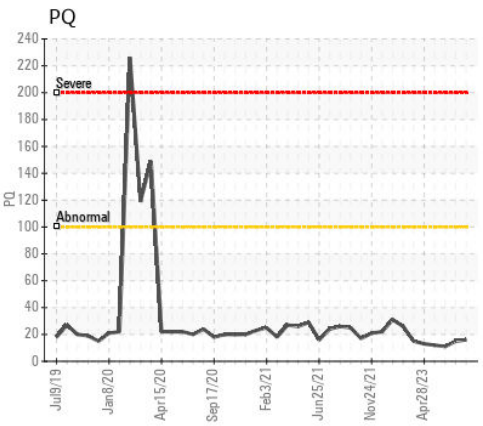


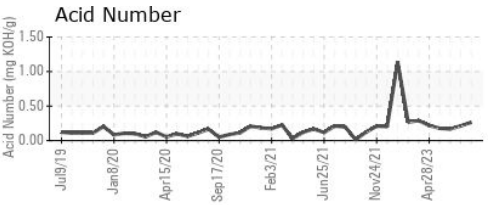
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0035348 **Received** : 29 Sep 2023
Lab Number : 05964922 **Diagnosed** : 03 Oct 2023
Unique Number : 10671473 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

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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Report Id: OUTCALAL [WUSCAR] 05964922 (Generated: 10/03/2023 16:18:44) Rev: 1

Submitted By: DALE ROBINSON