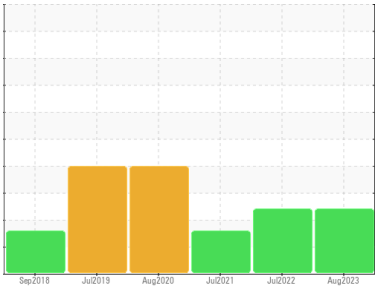
PROBLEM SUMMARY

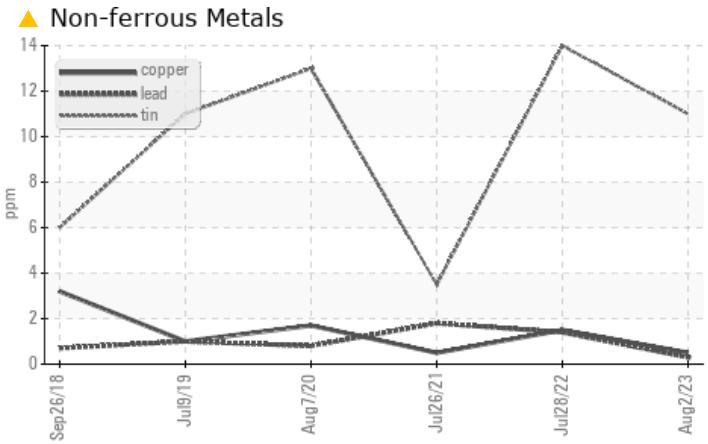
Sample Rating Trend

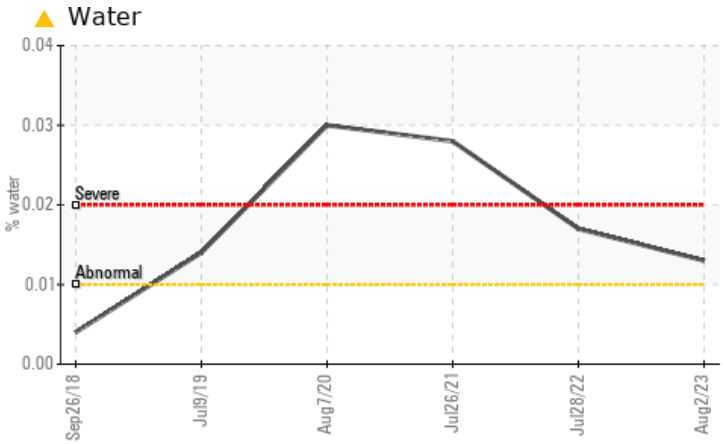


WATER

Machine Id
CARRIER LCOR JEFFERSON C2 (S/N 3802Q67307)
Component
Refrigeration Compressor
Fluid
CARRIER 68 (--- Oz)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	MARGINAL
Tin	ppm	ASTM D5185m	>4	▲ **11**	▲ 14	4
Water	%	ASTM D6304	>0.01	▲ **0.013**	▲ 0.017	▲ 0.028
ppm Water	ppm	ASTM D6304	>100	▲ **137.9**	▲ 178.0	▲ 289.6

Customer Id: CDSCRO
Sample No.: WC0713938
Lab Number: 05924373
Test Package: IND 2

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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

28 Jul 2022 Diag: Don Baldridge

WATER

No corrective action is recommended at this time. Resample at the next service interval to monitor.The tin level is abnormal. All other component wear rates are normal. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

26 Jul 2021 Diag: Don Baldridge

WATER

Resample at the next service interval to monitor.All component wear rates are normal. 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

07 Aug 2020 Diag: Don Baldridge

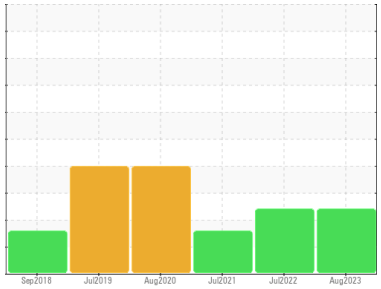
WATER

No corrective action is recommended at this time. Resample at the next service interval to monitor.The tin level is abnormal. All other component wear rates are normal. There is a trace of moisture present in the oil. Elemental level of silicon (Si) above normal. 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



WATER

Machine Id
CARRIER LCOR JEFFERSON C2 (S/N 3802Q67307)
Component
Refrigeration Compressor
Fluid
CARRIER 68 (--- Oz)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
The tin level is abnormal. All other component wear rates are normal.

Contamination
There is a trace of moisture present in the oil. Elemental level of silicon (Si) above normal.

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		**WC0713938**	WC0597013	WC0596986
Sample Date		Client Info		**02 Aug 2023**	28 Jul 2022	26 Jul 2021
Machine Age	hrs	Client Info		**6993**	24791	22954
Oil Age	hrs	Client Info		**6993**	24791	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	MARGINAL

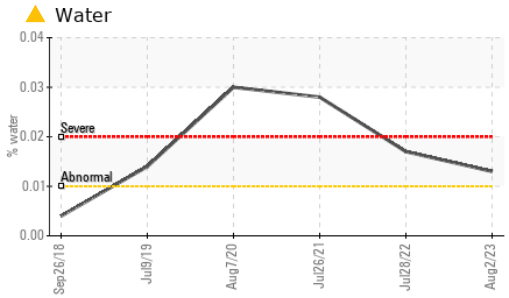
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	**2**	2	<1
Chromium	ppm	ASTM D5185m	>2	**0**	0	0
Nickel	ppm	ASTM D5185m		**0**	1	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185m	>3	**<1**	2	0
Lead	ppm	ASTM D5185m	>2	**<1**	1	2
Copper	ppm	ASTM D5185m	>8	**<1**	2	<1
Tin	ppm	ASTM D5185m	>4	▲ **11**	▲ 14	4
Antimony	ppm	ASTM D5185m		**---**	---	3
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

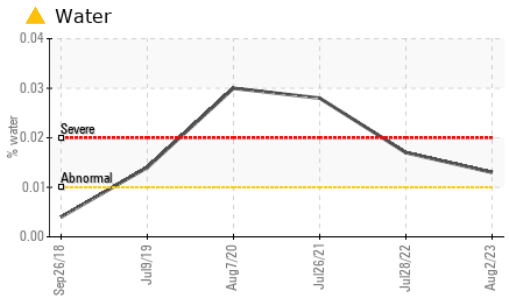
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	4
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m		**<1**	0	0
Calcium	ppm	ASTM D5185m		**0**	0	<1
Phosphorus	ppm	ASTM D5185m		**568**	613	121
Zinc	ppm	ASTM D5185m		**0**	2	0
Sulfur	ppm	ASTM D5185m		**0**	8	23

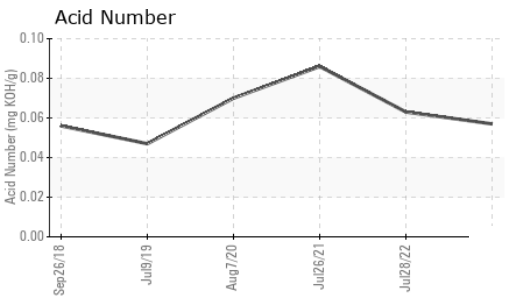
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**11**	13	10
Sodium	ppm	ASTM D5185m		**<1**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**2**	0	0
Water	%	ASTM D6304	>0.01	▲ **0.013**	▲ 0.017	▲ 0.028
ppm Water	ppm	ASTM D6304	>100	▲ **137.9**	▲ 178.0	▲ 289.6

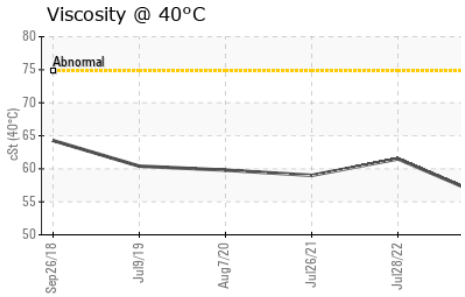
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		**0.057**	0.063	0.086

OIL ANALYSIS REPORT





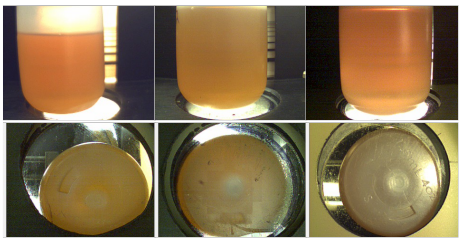




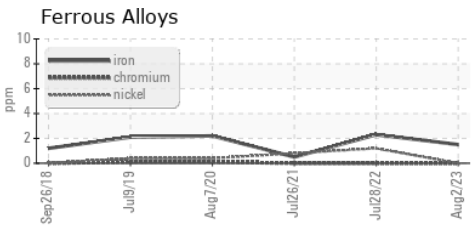
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

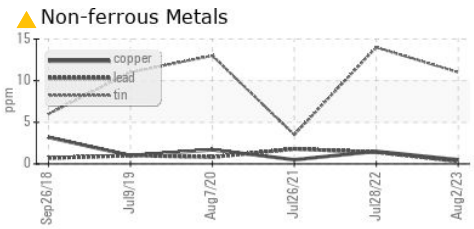
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**55.9**	61.5	59.0

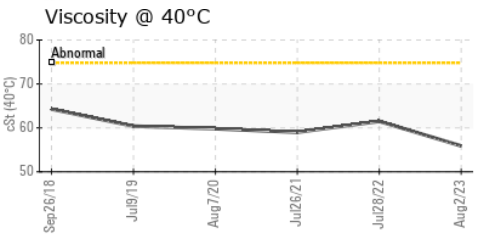
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

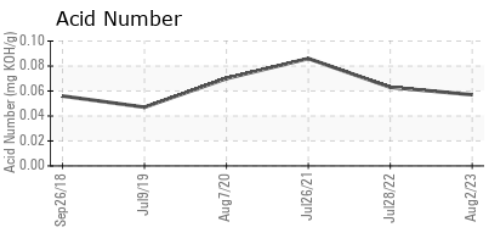


GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0713938
Lab Number : 05924373
Unique Number : 10604320
Test Package : IND 2

Received : 14 Aug 2023
Diagnosed : 16 Aug 2023
Diagnostician : 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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