

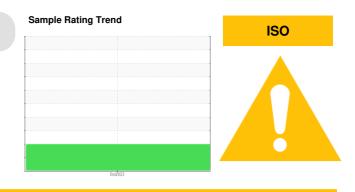
PROBLEM SUMMARY

N-3104B TRANSFORMER COALSR

Hydraulic System Fluid NOT GIVEN (--- LTR)

COMPONENT CONDITION SUMMARY





Viscosity @ 40°C

⁵⁵ T	AL
50	Abnormal
45	1
40	Abnormal
् च 35-	
(j 35 (+) 30	
ぢ 25	·
20	
15	1
10	-
5	1 I I I I I I I I I I I I I I I I I I I
	0ct29/23 0ct29/23
	0ct2

RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	
Particles >4µm	ASTM D7647	>5000	<u> </u>	
Particles >6µm	ASTM D7647	>1300	🔺 2087	
Particles >14µm	ASTM D7647	>160	<u> </u>	
Particles >21µm	ASTM D7647	>40	<mark>/</mark> 98	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	

Customer Id: HIBSTJ Sample No.: PP Lab Number: 02592670 Test Package: MAR 2



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To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 <u>Kevin.Marson@wearcheck.com</u>

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED AG	CTIONS						
Action	Status	Date	Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	We recommend an early resample to monitor this condition.			
Alert			?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Machine Ic N-3104B TRANSFORMER COALSR Component

Hydraulic System NOT GIVEN (--- LTR)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

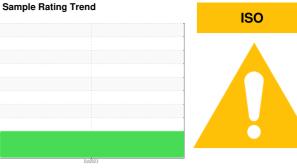
All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 10 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



				0ct2023		
SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP		
Sample Date		Client Info		29 Oct 2023		
Machine Age h	nrs	Client Info		0		
Oil Age	nrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
lron p	opm	ASTM D5185(m)	>20	0		
Chromium p	opm	ASTM D5185(m)	>10	0		
Nickel p	opm	ASTM D5185(m)	>10	0		
Titanium p	opm	ASTM D5185(m)		0		
Silver p	opm	ASTM D5185(m)		<1		
Aluminum p	opm	ASTM D5185(m)	>10	0		
Lead p	opm	ASTM D5185(m)	>20	1		
Copper p	opm	ASTM D5185(m)	>20	<1		
Tin p	opm	ASTM D5185(m)	>10	0		
Antimony p	opm	ASTM D5185(m)		0		
Vanadium p	opm	ASTM D5185(m)		0		
Beryllium p	opm	ASTM D5185(m)		0		
Cadmium p	opm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185(m)		<1		
Barium p	opm	ASTM D5185(m)		0		
Molybdenum p	opm	ASTM D5185(m)		0		
Manganese p	opm	ASTM D5185(m)		0		
Magnesium p	opm	ASTM D5185(m)		0		
Calcium p	opm	ASTM D5185(m)		<1		
Phosphorus p	opm	ASTM D5185(m)		<1		
Zinc p	opm	ASTM D5185(m)		1		
	opm	ASTM D5185(m)		886		
	opm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon p	opm	ASTM D5185(m)	>15	0		
Sodium p	opm	ASTM D5185(m)		0		
	opm	ASTM D5185(m)	>20	0		
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 7564		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	A 278		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	12		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 20/18/15		
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2

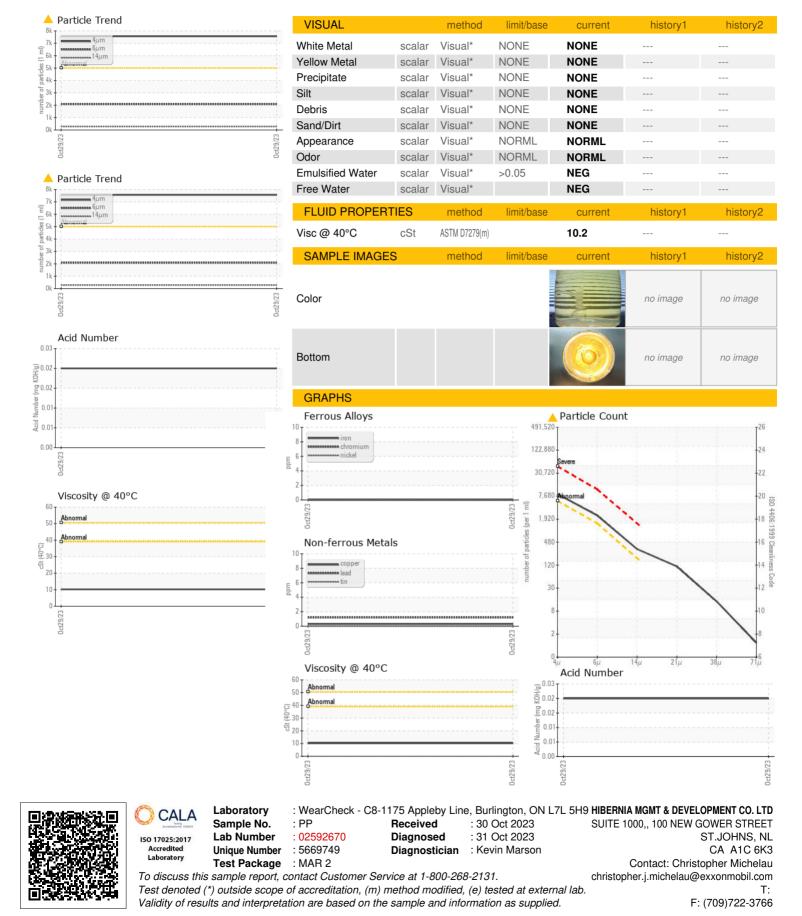
mg KOH/g ASTM D974* Acid Number (AN)

0.02

----Contact/Location: Christopher Michelau - HIBSTJ



OIL ANALYSIS REPORT



Report Id: HIBSTJ [WCAMIS] 02592670 (Generated: 10/31/2023 08:48:15) Rev: 1

Contact/Location: Christopher Michelau - HIBSTJ