

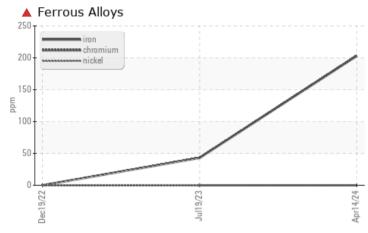
PROBLEM SUMMARY

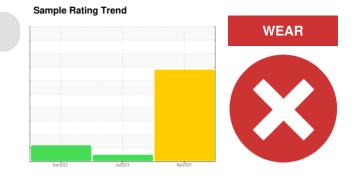
Area MACHINE Id MACHINE ID

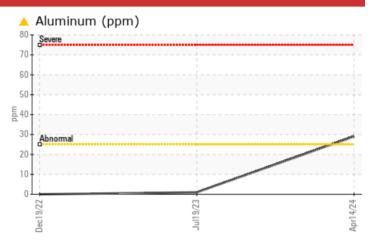
Compressor Fluid

BELRAY Turbine Oil 150 (--- QTS)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>50	2 03	43	0		
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	1	0		

Customer Id: CALSHR Sample No.: RP0042801 Lab Number: 06153203 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 <u>jhester@wearcheckusa.com</u>

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

RECOMMENDED A	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Resample			?	We recommend an early resample to monitor this condition.			

HISTORICAL DIAGNOSIS



19 Jul 2023 Diag: Doug Bogart

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.



19 Dec 2022 Diag: Angela Borella



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

WEAR METALS

Oil Age

Iron

Nickel

Silver

Lead

Tin

Odor

Emulsified Water

Copper

Titanium

Aluminum

Chromium

Area NAPHTHA UNIFINER [1083321] [NAPHTHA UNIFINER] NAPU-C-0001 COMPRESSOR, RECYCLE HYDROGEN

Compressor Fluic

BELRAY Turbine Oil 150 (--- QTS)

DIAGNOSIS

Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

A Wear

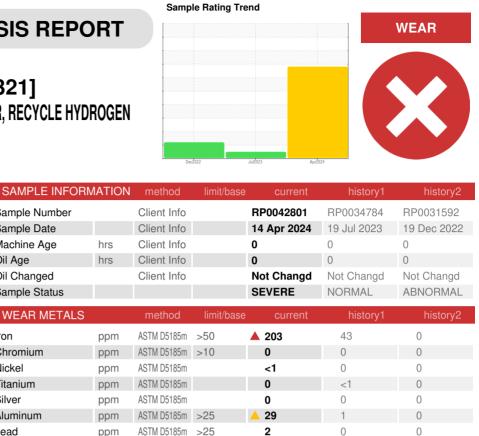
The iron level is severe. The aluminum level is abnormal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid.



15

5

4

3

<1

0

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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	1	<1
Manganese	ppm	ASTM D5185m		2	<1	0
Magnesium	ppm	ASTM D5185m		4	6	3
Calcium	ppm	ASTM D5185m		22	17	16
Phosphorus	ppm	ASTM D5185m		28	32	29
Zinc	ppm	ASTM D5185m		7	10	8
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	2	0
Sodium	ppm	ASTM D5185m		3	7	0
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.1	0.002	0.007	0.013
ppm Water	ppm	ASTM D6304	>1000	24	76.8	138.5
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.164	0.10	0.067
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	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML

NORML

>0.1

scalar

scalar

*Visual

*Visual

scalar *Visual

NORML

NEG

NEG

NORML

NEG

ASTM D5185m >50

>15

ASTM D5185m

ppm

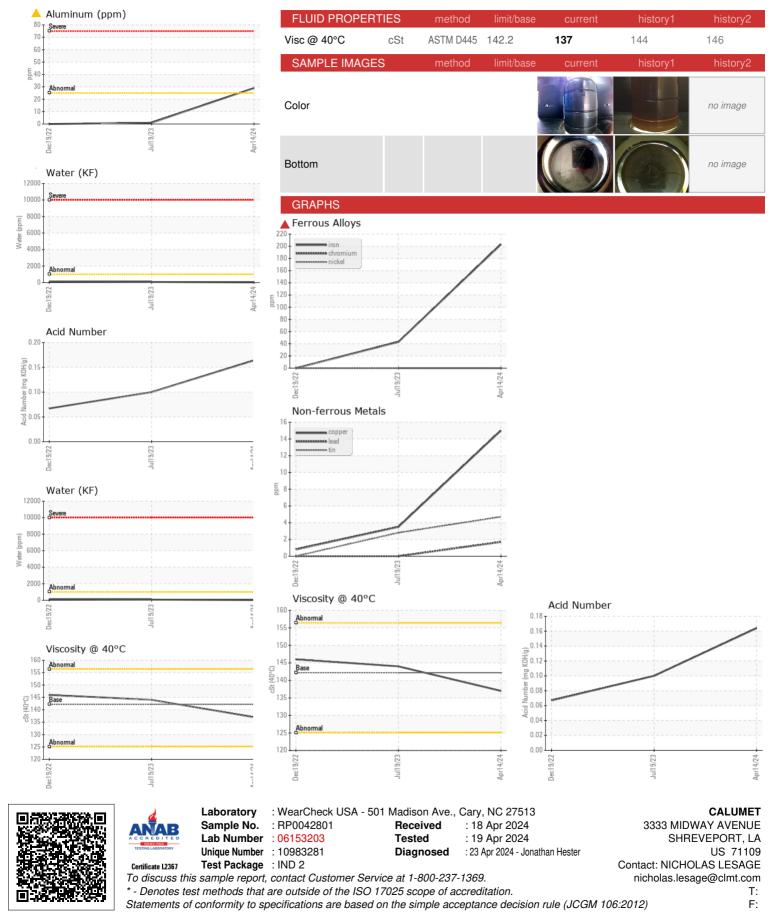
ppm

NEG

NORML



OIL ANALYSIS REPORT



Report Id: CALSHR [WUSCAR] 06153203 (Generated: 04/23/2024 09:27:24) Rev: 1

Submitted By: SPENCER WALTERS

Page 4 of 4