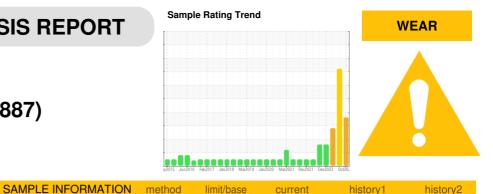


OIL ANALYSIS REPORT



current

history2

HARRIS HRB10 HRB (S/N 2887) Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

🔺 Wear

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

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAIVIFLE INFUNI	ATION	method	iimii/base	current	nistory i	nistory2
Sample Number		Client Info		PTK0004143	PTK0004505	PTK0004152
Sample Date		Client Info		12 Oct 2023	13 Sep 2023	03 Jul 2023
Machine Age	hrs	Client Info		28926	28863	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4 1	<u> </u>	<u> </u>
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		1	2	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	<u> </u>	1 1
Lead	ppm	ASTM D5185m	>10	2	3	2
Copper	ppm	ASTM D5185m	>75	18	19	18
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	25	35	42	42
Calcium	ppm	ASTM D5185m	200	44	40	41
Phosphorus	ppm	ASTM D5185m	300	279	306	296
Zinc	ppm	ASTM D5185m	370	294	338	337
Sulfur	ppm	ASTM D5185m	2500	3859	4795	4571
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	11	11	11
Sodium	ppm	ASTM D5185m		56	6	5
Potassium	ppm	ASTM D5185m	>20	<1	2	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	🔺 183337	222699	
Particles >6µm		ASTM D7647	>1300	<u> </u>	• 75860	
Particles >14µm		ASTM D7647	>160	<u> </u>	<u> </u>	
Particles >21µm		ASTM D7647	>40	<u> </u>	<u> </u>	
Particles >38µm		ASTM D7647	>10	2	2	
Particles >71µm		ASTM D7647	>3	0	1	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	4 25/24/17	• 25/23/17	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.66	0.70	0.68

limit/base



OIL ANALYSIS REPORT

method

*Visual

*Visual

*Visua

*Visual

*Visual

*Visua

*Visual

*Visual

method

ASTM D445

method

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

limit/base

>0.1

46

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

current

current

no image

Particle Count

Acid Number

Jun14/16

h2/1 in29/1

491.52

122.88

30 72

480

120

30

(^B/H0)

명 0.00

0ct12/23 -

: 13 Oct 2023

: 17 Oct 2023

: Jonathan Hester

Mar8/21 ec10/21 100000 Ab

(per] 1.92 NEG

NEG

45.4

history1

🔺 LIGHT

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

historv1

no image

NEG

NEG

45.13

history2

▲ HEAVY

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

history2

no image

20 8

4406

1999 Cle

14

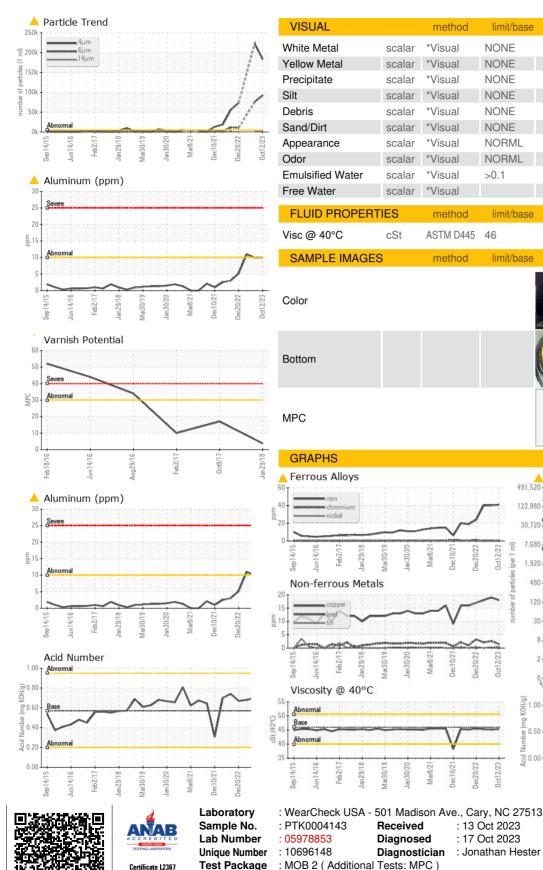
12 8

0ct12/23

NEG

NEG

45.3



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)

/ar8/2 Dec10/21 lec20/77

384

21µ

lar30/19

 14μ