

### **OIL ANALYSIS REPORT**

WATER

Machine Id

# MACHINE 3 PUMP 2

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

#### DIAGNOSIS

#### A 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 copper level is abnormal.

#### Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0953166	WC0908007	WC0850240
Sample Date		Client Info		20 Jun 2024	28 Mar 2024	13 Dec 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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>A</b> 30	<u> </u>	<b>A</b> 23
Chromium	ppm	ASTM D5185m	>20	2	1	1
Nickel	ppm	ASTM D5185m	>20	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	1
Lead	ppm	ASTM D5185m	>20	3	2	1
Copper	ppm	ASTM D5185m	>20	<u>▲</u> 36	▲ 35	▲ 34
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Vanadium	ppm	ASTM D5185m	-	<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	2	<1	0
Molybdenum	ppm	ASTM D5185m	5	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	25	<1	<1	1
Calcium	ppm	ASTM D5185m	200	0	6	3
Phosphorus	ppm	ASTM D5185m	300	444	479	487
Zinc	ppm	ASTM D5185m	370	25	23	30
Sulfur	ppm	ASTM D5185m	2500	493	538	551
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	4	5
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	2	1	3
Water	%	ASTM D6304	>0.05	<b>A</b> 0.119	▲ 0.147	<b>0.546</b>
ppm Water	ppm	ASTM D6304	>500	<b>A</b> 1190	<b>1</b> 470	▲ 5460
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1087	▲ 16869	4559
Particles >6µm		ASTM D7647	>1300	592	1242	<b>4</b> 2483
Particles >14µm		ASTM D7647	>160	101	19	423
Particles >21µm		ASTM D7647	>40	34	5	<b>1</b> 42
Particles >38µm		ASTM D7647	>10	5	1	<u> </u>
Particles >71µm		ASTM D7647	>3	1	0	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/14	<b>2</b> 1/17/11	▲ 19/18/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.13	0.15	0.16

Contact/Location: NICO LEEJAY - UNIARL Page 1 of 2



🔺 Water (KF)

Abnorma

Dec

6000

5000

4000

300 A 2000

1000

20

of particles (

51 0

3

lec]

491.52 122,88

30.72 (lu

7,68

1,92

480 120

30

1.00 Abnorma

(B/H0)

20.6

Ê 0.40

Pi 0.20

0.0

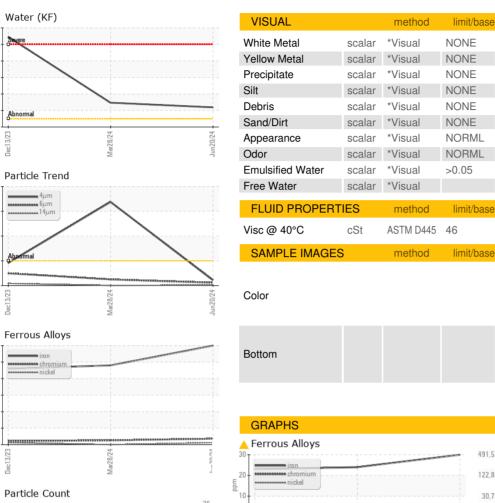
Dec

Acid Number

cles (per

mhar

## **OIL ANALYSIS REPORT**





history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

0.2%

NEG

47.2

history

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

currer

0.2%

NEG

40.3

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

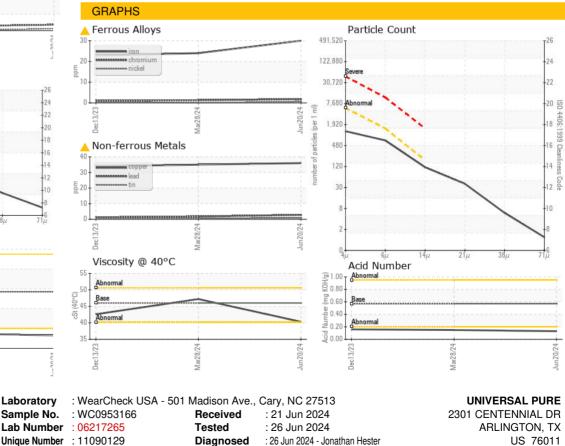
NORML

histor

NEG

42.6

0.2%



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.

Test Package : IND 2 (Additional Tests: KF)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate 12367

21µ

38

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