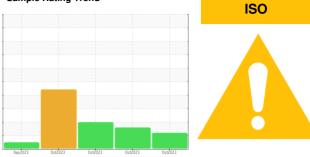


# **OIL ANALYSIS REPORT**

Sample Rating Trend



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

## DIAGNOSIS

Area RIG 879

**R879-HPU** 

#### Recommendation

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

### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

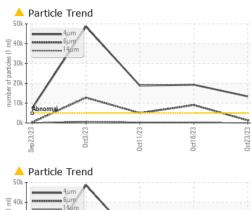
#### Fluid Condition

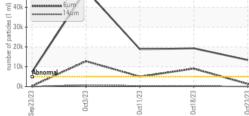
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

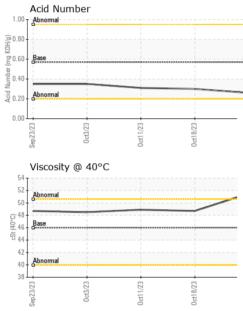
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012923	KL0012966	KL0012965
Sample Date		Client Info		23 Oct 2023	18 Oct 2023	11 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	1	1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
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	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	4	2	2
Calcium	ppm	ASTM D5185m	200	57	53	53
Phosphorus	ppm	ASTM D5185m	300	302	321	318
Zinc	ppm	ASTM D5185m	370	430	418	413
Sulfur	ppm	ASTM D5185m	2500	2467	2215	2207
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	<b>1</b> 9304	<b>1</b> 8837
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u> </u>	<u> </u>
Particles >14µm		ASTM D7647	>160	37	<b>2</b> 76	<b>4</b> 340
Particles >21µm		ASTM D7647		6	29	<u> </u>
Particles >38µm		ASTM D7647	>10	0	1	5
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 21/18/12	A 21/20/15	<u> </u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.26	0.30	0.31



# **OIL ANALYSIS REPORT**

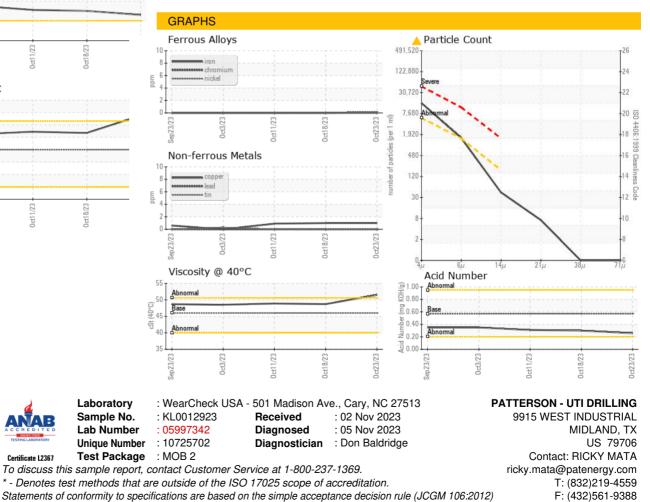






VISUAL		method	limit/base	ourroat	biotomut	biotom/0
VISUAL		method	inniv base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history	history
FLUID PROFERITES		methou	IIIIII/Dase	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	51.5	48.7	48.9
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom



Contact/Location: RICKY MATA - PATMIDTX