

# **OIL ANALYSIS REPORT**

Sample Rating Trend



AVURE M1 HPU2

Hydraulic System Fluid STARFIRE AW 32 (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

## Fluid Condition

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

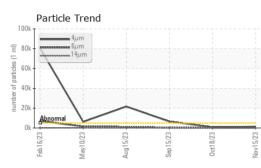
		Feb2023	May2023 Aug202	3 Sep2023 Oct2023	Nov2023	
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0842447	WC0842443	WC0842442
Sample Date		Client Info		15 Nov 2023	18 Oct 2023	15 Sep 2023
Machine Age	yrs	Client Info		4	4	4
Oil Age	yrs	Client Info		1	1	1
Oil Changed		Client Info		Filtered	Not Changd	Filtered
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	2	7
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>20	12	10	11
Tin	ppm	ASTM D5185m	>20	<1	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		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	3	1
Calcium	ppm	ASTM D5185m		7	8	6
Phosphorus	ppm	ASTM D5185m		280	287	247
Zinc	ppm	ASTM D5185m		221	264	198
Sulfur	ppm	ASTM D5185m		1197	1256	1153
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	2
Sodium	ppm	ASTM D5185m		3	1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1341	830	<b>6</b> 510
Particles >6µm		ASTM D7647	>1300	246	177	335
Particles >14µm		ASTM D7647	>160	20	14	20
Particles >21µm		ASTM D7647	>40	7	4	6
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/11	17/15/11	▲ 20/16/11
FLUID DEGRADA	TION	method				history2
FLUID DEGRADA Acid Number (AN)	TION mg KOH/g	method ASTM D8045	limit/base	current 0.31	history1 0.39	history2 0.35

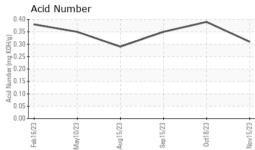
Report Id: UNIDELOH [WUSCAR] 06013248 (Generated: 11/22/2023 18:28:14) Rev: 1

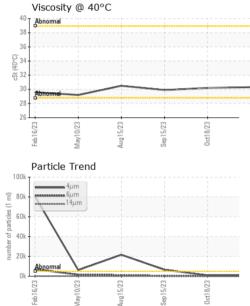
Contact/Location: K BRONSON - UNIDELOH



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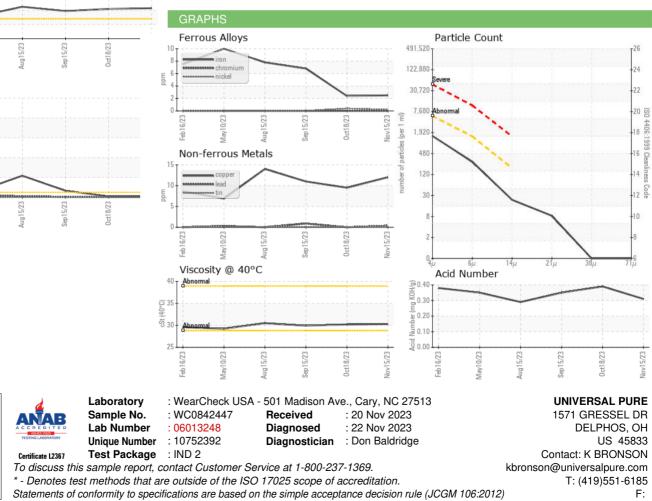






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IFS	method	limit/base	current	history1	history2
			mmbase			· · · · · ·
Visc @ 40°C	cSt	ASTM D445		30.3	30.2	29.9
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color				•		

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