

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.

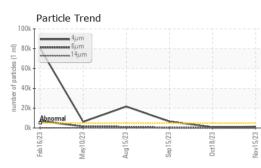
		Feb2023	May2023 Aug202	3 Sep2023 Oct2023	Nov2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0842447	WC0842443	WC0842442
Sample Date		Client Info		15 Nov 2023	18 Oct 2023	15 Sep 2023
Machine Age	yrs	Client Info		4	4	4
Oil Age	yrs	Client Info		1	1	1
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	6 510
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

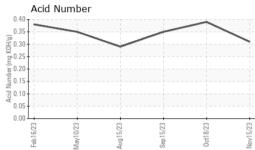
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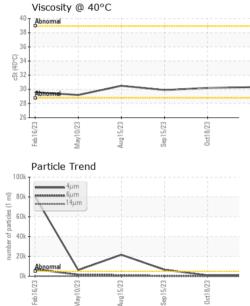
Contact/Location: K BRONSON - UNIDELOH



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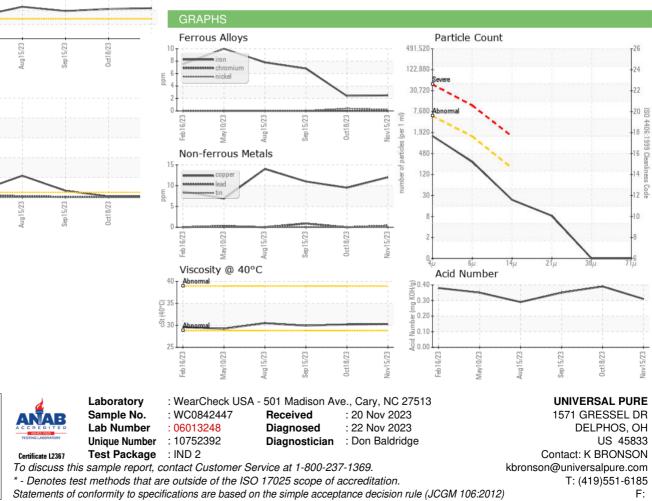






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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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