

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

AVURE M2 HPU1

Component Hydraulic System Fluid CLARION FM A/W 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

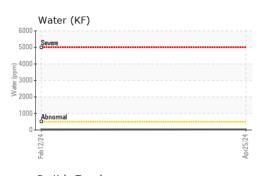
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

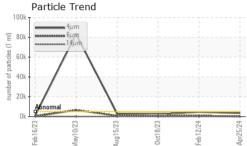
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0885490	WC0885493	WC0842445
Sample Date		Client Info		25 Apr 2024	12 Feb 2024	18 Oct 2023
Machine Age	mths	Client Info		36	3	3
Oil Age	mths	Client Info		1	1	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	8	<1
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	- <1	0	0
Copper	ppm	ASTM D5185m		<1	6	1
Tin	ppm		>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	2
Calcium	ppm	ASTM D5185m		10	3	6
Phosphorus	ppm	ASTM D5185m		276	328	336
Zinc	ppm	ASTM D5185m		13	198	395
Sulfur	ppm	ASTM D5185m		0	1063	1570
CONTAMINANTS						1370
		method	limit/base	current	history1	history2
Silicon						history2
Silicon Sodium	ppm	method ASTM D5185m ASTM D5185m		3	<1	
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>15	3 0	<1 2	history2 <1 0
Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	3 0 1	<1 2 0	history2 <1 0 <1
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>15 >20 >0.05	3 0	<1 2	history2 <1 0
Sodium Potassium Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>15 >20 >0.05	3 0 1 0.003	<1 2 0 0.002	history2 <1 0 <1
Sodium Potassium Water ppm Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>15 >20 >0.05 >500	3 0 1 0.003 32	<1 2 0 0.002 19	history2 <1 0 <1
Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>15 >20 >0.05 >500 limit/base >5000	3 0 1 0.003 32 current	<1 2 0 0.002 19 history1	history2 <1 0 <1 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>15 >20 >0.05 >500 limit/base >5000	3 0 1 0.003 32 current 3512	<1 2 0 0.002 19 history1 4665	history2 <1 0 <1 history2 2374
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.05 >500 limit/base >5000 >1300 >160	3 0 1 0.003 32 <u>current</u> 3512 91	<1 2 0 0.002 19 history1 4665 828	history2 <1 0 <1 history2 2374 528
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.05 >500 limit/base >5000 >1300 >160 >40	3 0 1 0.003 32 <u>current</u> 3512 91 6	<1 2 0 0.002 19 history1 4665 828 95	history2 <1 0 <1 history2 2374 528 41
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.05 >500 limit/base >5000 >1300 >160 >40	3 0 1 0.003 32 <u>current</u> 3512 91 6 2	<1 2 0 0.002 19 history1 4665 828 95 25	history2 <1 0 <1 history2 2374 528 41 10
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.05 >500 limit/base >5000 >1300 >160 >40	3 0 1 0.003 32 <u>current</u> 3512 91 6 2 2 0	<1 2 0 0.002 19 history1 4665 828 95 25 0	<1 0 <1 history2 2374 528 41 10 0
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm IESS	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.05 >500 limit/base >5000 >1300 >160 >40 >10	3 0 1 0.003 32 <u>current</u> 3512 91 6 2 0 0 0	<1 2 0 0.002 19 history1 4665 828 95 25 0 0	<1

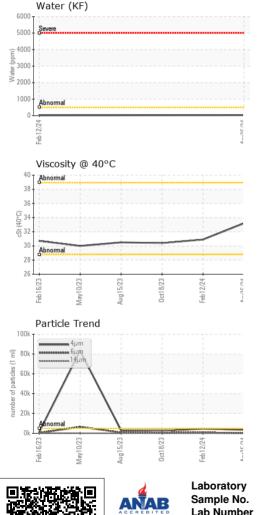
Contact/Location: K BRONSON - UNIDELOH Page 1 of 2



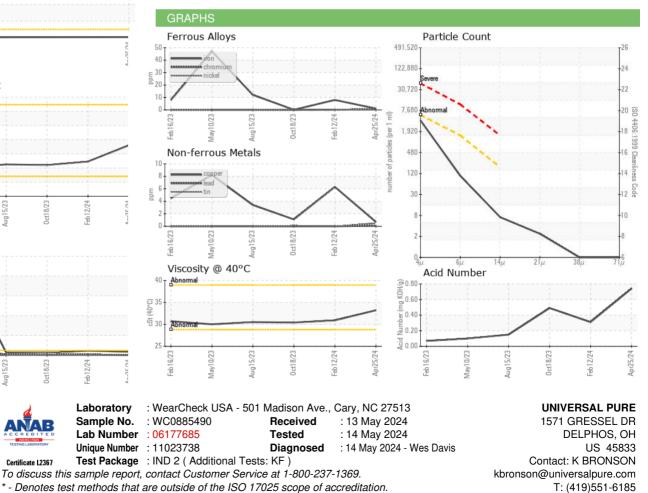
OIL ANALYSIS REPORT







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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		33.2	30.9	30.4
SAMPLE IMAGES	5	method				history2
Color				•		×
Bottom						(6)



* - 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)

Report Id: UNIDELOH [WUSCAR] 06177685 (Generated: 05/14/2024 17:37:20) Rev: 1

Certificate 12367

Contact/Location: K BRONSON - UNIDELOH

E: