

OIL ANALYSIS REPORT

Area Harris Baler Harris Baler

Hydraulic System Fluid SHELL AW HYDRAULIC S2 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

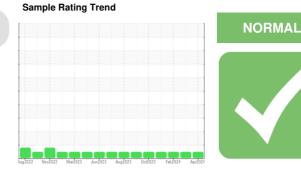
All component wear rates are normal.

Contamination

There is no indication of any contamination 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	ΜΑΠΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0003610	PE0003606	PE0000745
Sample Date		Client Info		18 Apr 2024	21 Mar 2024	07 Feb 2024
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				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		17	15	16
Iron	ppm	ASTM D5185m	>20	13	12	14
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	<1
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>20	4	3	5
Copper	ppm	ASTM D5185m	>20	31	28	34
Tin	ppm	ASTM D5185m	>20	2	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium						
	ppm	ASTM D5185m		0	0	13
Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 <1	0	13 1
Molybdenum Manganese				-		
•	ppm	ASTM D5185m		<1	0	1
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m		<1 <1	0	1 <1
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1 7	0 0 3	1 <1 7
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1 7 40	0 0 3 48	1 <1 7 46
Manganese	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1 7 40 322	0 0 3 48 318	1 <1 7 46 337
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 <1 7 40 322 340	0 0 3 48 318 331	1 <1 7 46 337 347
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >15	<1 <1 7 40 322 340 832	0 0 3 48 318 331 952	1 <1 7 46 337 347 888
Maganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1 7 40 322 340 832 current	0 0 3 48 318 331 952 history1	1 <1 7 46 337 347 888 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1 7 40 322 340 832 current 2	0 0 3 48 318 331 952 history1 1	1 <1 7 46 337 347 888 history2 2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>15	<1 <1 <1 7 40 322 340 832 current 2 0	0 0 3 48 318 331 952 history1 1 1	1 <1 7 46 337 347 888 history2 2 0
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	<1 <1 7 40 322 340 832 <u>current</u> 2 0 2	0 0 3 48 318 331 952 history1 1 1 0	1 <1 7 46 337 347 888 history2 2 0 <1
Maganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>15 >20 limit/base >5000	<1 <1 <1 7 40 322 340 832 Current 2 0 2 Current	0 0 3 48 318 331 952 history1 1 1 0 history1	1 <1 7 46 337 347 888 history2 2 0 <1 kistory2

ASTM D7647 >40

ASTM D7647 >10

ASTM D7647 >3

ISO 4406 (c) >19/17/14

Particles >21µm

Particles >38µm

Particles >71µm

Oil Cleanliness

4

0

0

16/14/11

3

1

0

17/15/11

1

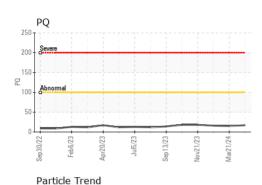
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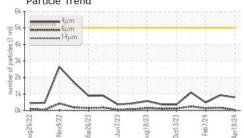
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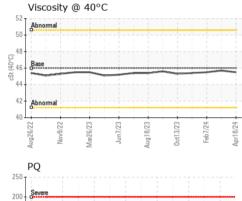
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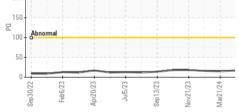


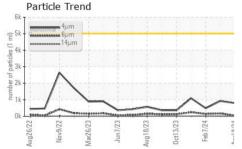
OIL ANALYSIS REPORT









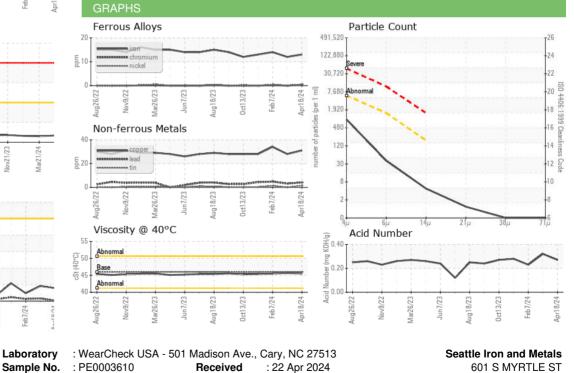


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.27	0.32	0.23
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.5	45.7	45.5
SAMPLE IMAGES		method				history2

Color



Bottom



: 23 Apr 2024

SEATTLE, WA : 24 Apr 2024 - Angela Borella Contact: ADAM THOMAS athomas@seairon.com T: (206)682-0040

Unique Number : 10992278 Test Package : PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Lab Number : 06156855

* - 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)

Tested

Diagnosed

Report Id: SEASEAUS [WUSCAR] 06156855 (Generated: 04/24/2024 17:04:56) Rev: 1

Submitted By: DUANE DENOTTA

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