

Area Shear Machine Id Harris Shear Component Hydraulic System Fluid

SHELL AW HYDRAULIC S2 46 (1800 GAL)

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п	EU	VIEN	DAT	IUN

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

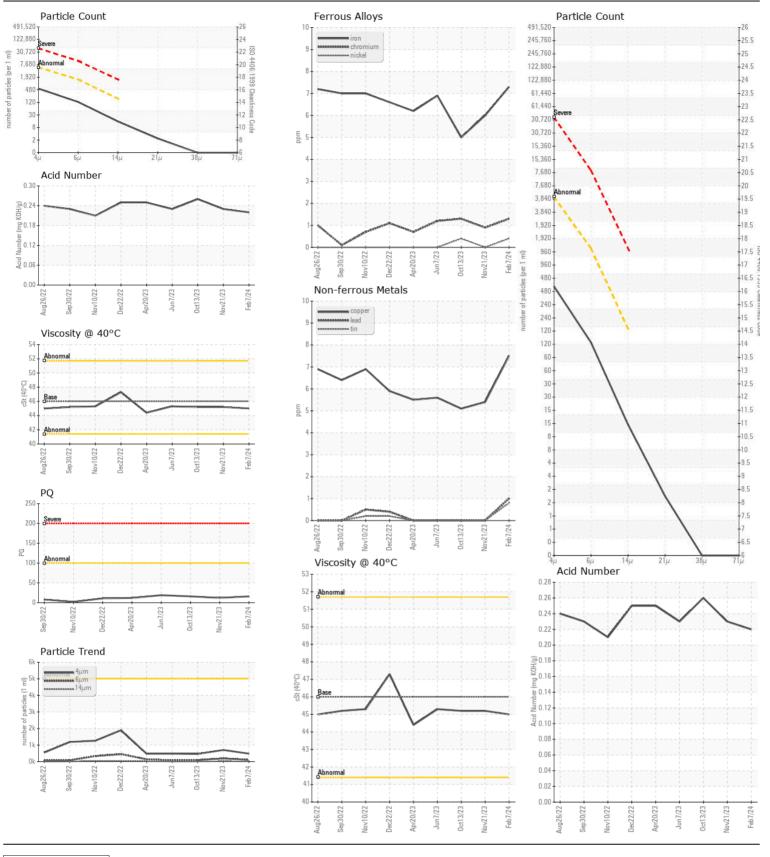
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0000751	PE0000728	PE0000613
Sample Date		Client Info		07 Feb 2024	21 Nov 2023	13 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184		16	12	16
Iron	ppm	ASTM D5185m	>20	7	6	5
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>20	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	<1
Lead	ppm	ASTM D5185m	>20	1	0	0
Copper	ppm	ASTM D5185m	>20	8	5	5
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	<1	<1	1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	482	704	466
Particles >6µm		ASTM D7647	>1300	111	193	97
Particles >14µm		ASTM D7647	>160	13	20	7
Particles >21µm		ASTM D7647	>40	2	6	2
Particles >38µm		ASTM D7647		0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)		16/14/11	17/15/11	16/14/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.05	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		0	1	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		13	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		5	3	0
Calcium	ppm	ASTM D5185m		46	45	48
Phosphorus	ppm	ASTM D5185m		317	293	248
Zinc	ppm	ASTM D5185m		335	349	342
Sulfur	ppm	ASTM D5185m		791	783	765
Acid Number (AN)	mg KOH/g	ASTM D8045		0.22	0.23	0.26
Visc @ 40°C	cSt	ASTM D445	46	45.0	45.2	45.2
	501	.1011110110	10		10.2	10.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Seattle Iron and Metals Sample No. : PE0000751 601 S MYRTLE ST Received : 12 Feb 2024 : 06085966 : 13 Feb 2024 SEATTLE, WA Lab Number Tested Unique Number : 10873411 US 98108 Diagnosed : 13 Feb 2024 - Don Baldridge Test Package : PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN) Contact: ADAM THOMAS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. athomas@seairon.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (206)682-0040 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: DUANE DENOTTA

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