

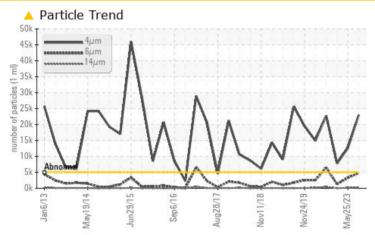
PROBLEM SUMMARY

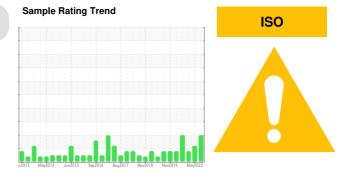
L1-L2 HPU - A.F. ENTRY TABLE

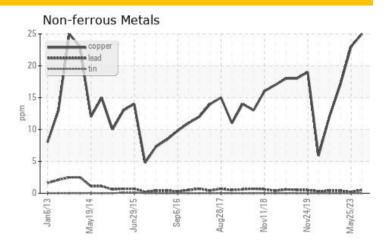
Hydraulic System

FORSYTHE TURBO HYDRAULIC AW 32 (200 LTR)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ATTENTION
Particles >4µm	ASTM D7647	>5000	<u> </u>	12657	A 7806
Particles >6µm	ASTM D7647	>1300	4799	A 3297	1258
Particles >14µm	ASTM D7647	>160	<u> </u>	148	47
Particles >21µm	ASTM D7647	>40	<u> </u>	33	13
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	1 21/19/14	2 0/17/13

Customer Id: WEL191WEL Sample No.: WC0851664 Lab Number: 02577494 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Filter			?	We recommend you service the filters on this component.	
Resample			?	We recommend an early resample to monitor this condition.	

HISTORICAL DIAGNOSIS



25 May 2023 Diag: Kevin Marson

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report

08 Jan 2023 Diag: Wes Davis



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

19 Sep 2022 Diag: Kevin Marson



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >14 μ m are abnormally high. Particles >21 μ m are abnormally high. Particles >4 μ m are abnormally high. The oil viscosity is higher than typical. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.









OIL ANALYSIS REPORT

L1-L2 HPU - A.F. ENTRY TABLE

Hydraulic System

FORSYTHE TURBO HYDRAULIC AW 32 (200 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

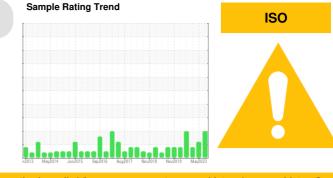
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0851664	WC0822491	WC0777240
Sample Date		Client Info		21 Aug 2023	25 May 2023	08 Jan 2023
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				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	2	2	2
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	0
Lead	ppm	ASTM D5185(m)	>20	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>20	25	23	17
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	<1	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		3	3	<1
Calcium	ppm	ASTM D5185(m)		31	33	39
Phosphorus	ppm	ASTM D5185(m)		363	379	334
Zinc	ppm	ASTM D5185(m)		354	355	322
Sulfur	ppm	ASTM D5185(m)		911	1085	887
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	0	0
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	A 22988	12657	7806
Particles >6µm	ASTM D7647	>1300	🔺 4799	A 3297	1258
Particles >14µm	ASTM D7647	>160	🔺 257	148	47
Particles >21µm	ASTM D7647	>40	<u> </u>	33	13
Particles >38µm	ASTM D7647	>10	2	4	1
Particles >71µm	ASTM D7647	>3	0	1	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	A 22/19/15	🔺 21/19/14	🔺 20/17/13

limit/base

FLUID DEGRADATION Acid Number (AN) mg KOH

mg KOH/g ASTM D974*

method

0.53 0.41 0.35

history1

Report Id: WEL191WEL [WCAMIS] 02577494 (Generated: 08/23/2023 08:54:59) Rev: 1

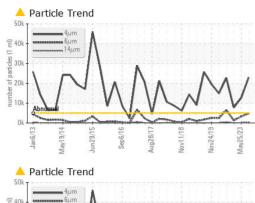
Contact/Location: Steve Holjak - WEL191WEL

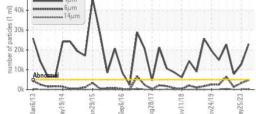
current

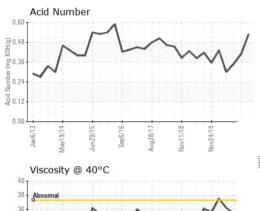
history2



OIL ANALYSIS REPORT







(J-34 S2 (40-C)

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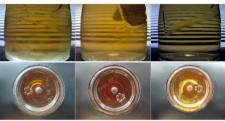
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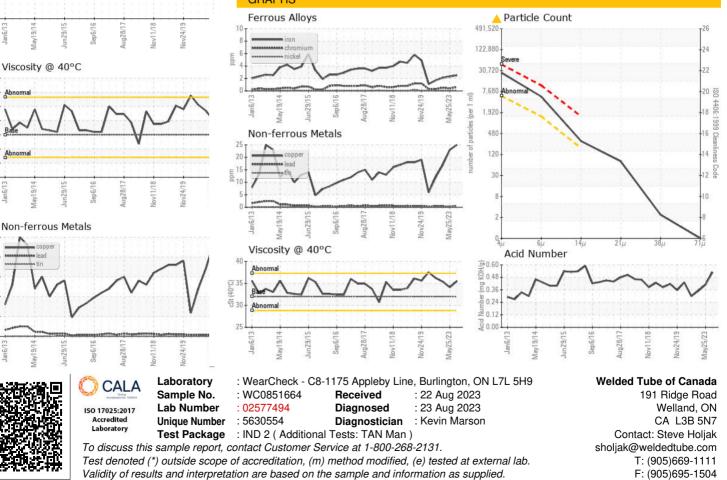
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	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 D7279(m)	32	35.5	34.1	35.4
SAMPLE IMAGES		method	limit/base	current	history1	history2
						1 Contraction

Color



Bottom





Contact/Location: Steve Holjak - WEL191WEL