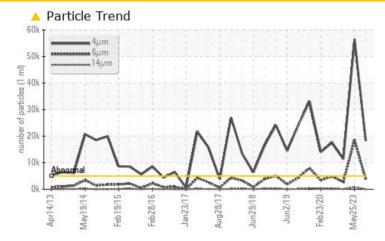


PROBLEM SUMMARY

TFENTRY TABLE HPU

Hydraulic System Fluid FORSYTHE TURBO HYDRAULIC AW 32 (300 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TE	ST RESULTS				
Sample Status			ABNORMAL	SEVERE	ABNORMAL
Particles >4µm	ASTM D7647	>5000	<u> </u>	b 56514	<u> </u>
Particles >6µm	ASTM D7647	>1300	A 3875	18592	<u> </u>
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	23/21/17	<u> </u>

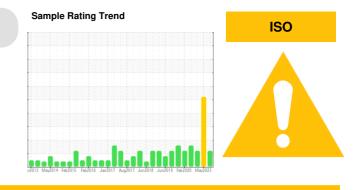
Customer Id: WEL191WEL Sample No.: WC0851645 Lab Number: 02577471 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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



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 advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 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.



08 Jan 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. Particles >4µm are abnormally high. Particles >6µm and oil cleanliness 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.

19 Sep 2022 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. Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >14µm are notably high. The oil viscosity is higher than normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report







OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id **TF ENTRY TABLE HPU** Component

Hydraulic System

FORSYTHE TURBO HYDRAULIC AW 32 (300 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.

				le .e m.el:						
DO LTR)										
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		WC0851645	WC0822486	WC0777252				
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	SEVERE	ABNORMAL				
WEAR METALS		method	limit/base	current	history1	history2				
Iron	ppm	ASTM D5185(m)	>20	2	2	1				
Chromium	ppm	ASTM D5185(m)	>20	<1	0	0				
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0				
Titanium	ppm	ASTM D5185(m)		0	0	0				
Silver	ppm	ASTM D5185(m)		6	0	5				
Aluminum	ppm	ASTM D5185(m)		<1	0	0				
Lead	ppm	ASTM D5185(m)	>20	<1	<1	0				
Copper	ppm	ASTM D5185(m)		3	2	2				
Tin	ppm	ASTM D5185(m)	>20	0	0	0				
Antimony Vanadium	ppm	ASTM D5185(m) ASTM D5185(m)		0	0	0				
Beryllium	ppm ppm	ASTM D5185(m)		0	0	0				
Cadmium	ppm	ASTM D5185(m)		0	0	0				
	le le	method	limit/base							
ADDITIVES			IIIIII/Dase		history1	history2				
Boron	ppm	ASTM D5185(m)		<1	<1	1				
Barium	ppm	ASTM D5185(m)		0	0 <1	0 <1				
Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m)		<1 0	0	0				
Magnesium	ppm	ASTM D5185(m)		6	6	5				
Calcium	ppm	ASTM D5185(m)		28	30	31				
Phosphorus	ppm	ASTM D5185(m)		369	389	378				
Zinc	ppm	ASTM D5185(m)		381	390	369				
Sulfur	ppm	ASTM D5185(m)		927	1271	1172				
Lithium	ppm	ASTM D5185(m)		<1	<1	<1				
CONTAMINANTS	S	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185(m)	>15	<1	<1	0				
Sodium	ppm	ASTM D5185(m)		0	0	0				
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1				
FLUID CLEANLIN	VESS	method	limit/base	current	history1	history2				
Particles >4µm		ASTM D7647	>5000	18265	56514	▲ 11401				
Particles >6µm		ASTM D7647		▲ 3875	18592	▲ 2759				
Particles >14µm		ASTM D7647	>160	79	▲ 780	115				
Particles >21µm		ASTM D7647		14	A 219	29				
Particles >38µm		ASTM D7647	>10	0	44	6				
Particles >71µm		ASTM D7647	>3	0	<u> </u>	0				
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/19/13	• 23/21/17	1/19/14				
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2				
Acid Number (AN)	mg KOH/g	ASTM D974*		0.53	0.56	0.63				
	ing ivor i/g	AUTIVI D3/4			0.00 an: Stava Halial					

Report Id: WEL191WEL [WCAMIS] 02577471 (Generated: 08/23/2023 11:40:25) Rev: 1

Contact/Location: Steve Holjak - WEL191WEL

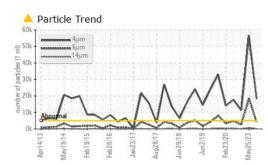


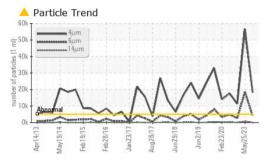
Acid Number

OIL ANALYSIS REPORT

method

VISUAL







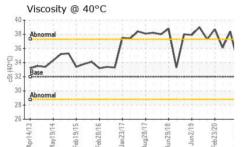
limit/base

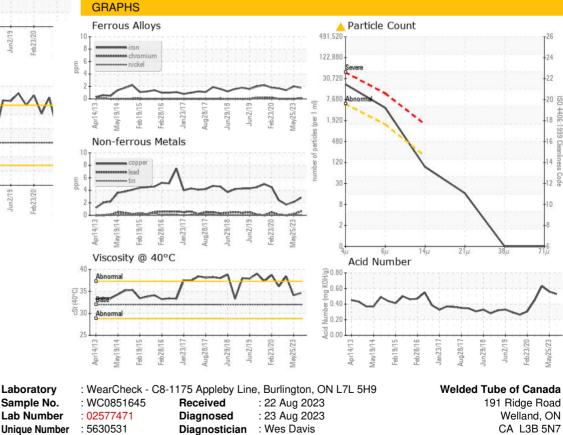
current

history1

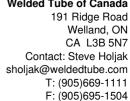
history2

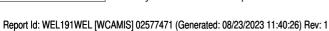
0.70 Bottom 0.60 (B/HO) 0.50 E 0.40 ~ 0.30 Acid Nun 0.50 0.00 122m /lav19/1 Feb 19/1 ah 28/1 April





Test Package : IND 2 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.





CALA

ISO 17025:2017 Accredited

Laboratory

Contact/Location: Steve Holjak - WEL191WEL