

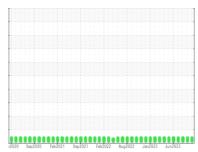
# **OIL ANALYSIS REPORT**

# FINISHING

# TandG Grade Line Hydraulic Unit (S/N SA205H05U)

**Hydraulic System** 

**VALVOLINE AW HYDRAULIC 68 (--- GAL)** 



Sample Rating Trend



### 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 system and fluid cleanliness is acceptable.

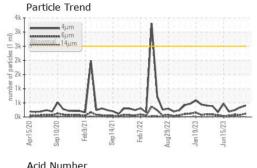
#### **Fluid Condition**

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

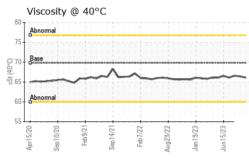
		r2020 Sep20	20 Feb2021 Sep2021	Feb2022 Aug2022 Jan2023	Jun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0834757	WC0834718	WC0782940
Sample Date		Client Info		13 Oct 2023	14 Sep 2023	17 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	3	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	7	8	8
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.6	2	<1	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	2	2
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	1.9	7	11	10
Calcium	ppm	ASTM D5185m	81	98	103	103
Phosphorus	ppm	ASTM D5185m	350	291	361	363
Zinc	ppm	ASTM D5185m	445	454	435	484
Sulfur	ppm	ASTM D5185m	1850	940	1068	1113
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		1	3	3
Potassium	ppm	ASTM D5185m	>20	1	0	<1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>2500	402	337	241
Particles >6µm		ASTM D7647	>640	111	75	85
Particles >14μm		ASTM D7647	>80	10	9	14
Particles >21µm		ASTM D7647	>20	3	4	6
Particles >38µm		ASTM D7647	>4	0	1	1
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/14/10	16/13/10	15/14/11
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	0.29	0.32

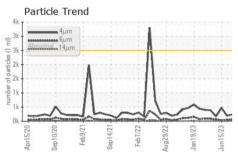


# **OIL ANALYSIS REPORT**



Acid	l Num	ber						
0.35 0.30 0.30	<b>~</b>	<b>~~</b>	~~	<b>√</b>	$\wedge$	<u> </u>		1
0.35 0.30 0.25 0.20 0.15								
0.05 0.00								
Apr15/20	Sep10/20	Feb 9/2	Sep14/2	Feb7/22	Aug29/22	Jan19/23	Jun15/23	





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
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

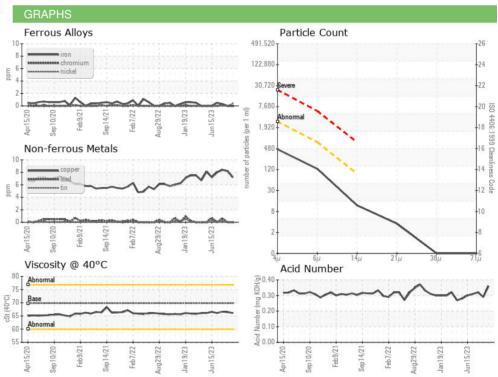
FLUID PROPER	TIES	method				history2
Visc @ 40°C	cSt	ASTM D445	69.8	66.1	66.4	66.6

|--|



Color









Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** 

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0834757 : 05980369 : 10697664

Diagnosed

Received : 16 Oct 2023 : 17 Oct 2023 : Wes Davis

Diagnostician

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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) J.M. Huber Corporation PO BOX 38

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