

Machine Id **Tenfjord Forward Steering Gear Hydraulics (S/N 11494.1991)** Component Forward Steering Fluid Flui

TOTAL EQUIVIS ZS 68 (100 LTR)

RECOMMENDATION

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. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. DISCLAIMER: Interpretation of results is based on the sample as received from the customer. The condition of the sample and the method of sampling cannot be verified.

WEAR

All component wear rates are normal.

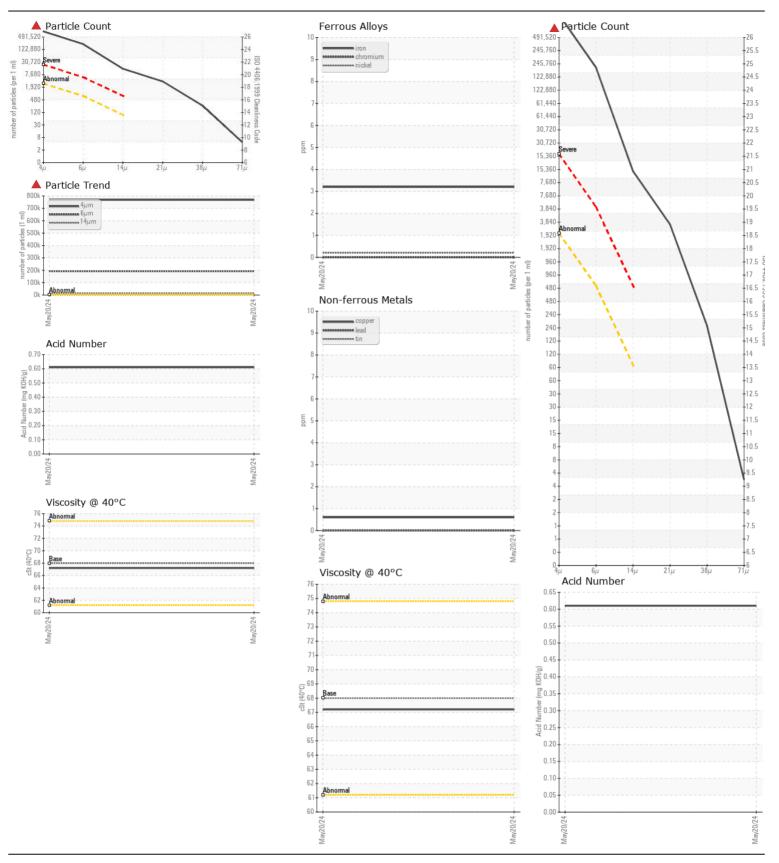
CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the fluid. Light concentration of visible dirt/debris present in the fluid.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861275		
Sample Date		Client Info		20 May 2024		
Machine Age		Client Info		0		
Oil Age		Client Info		0		
Filter Age		Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
Iron	ppm	ASTM D5185(m)	>50	3		
Chromium	ppm	ASTM D5185(m)	>15	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>10	0		
Copper	ppm	ASTM D5185(m)	>50	<1		
Tin	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>15	1		
Potassium	ppm	ASTM D5185(m)		0		
Water		WC Method	>0.2	NEG		
Particles >4µm		ASTM D7647		A 767956		
Particles >6µm		ASTM D7647	>640	192323		
Particles >14µm		ASTM D7647	>80	12772		
Particles >21µm		ASTM D7647	>20	3173		
Particles >38µm		ASTM D7647		A 224		
Particles >71µm		ASTM D7647	>3	4		
Oil Cleanliness		ISO 4406 (c)		A 27/25/21		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE			
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Sodium	nnm	ASTM D5185(m)		0		
Boron	ppm ppm	ASTM D5185(m)		2		
Barium	ppm	ASTM D5185(m) ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m) ASTM D5185(m)		0		
Magnesium		ASTM D5185(m)		3		
Calcium	ppm	ASTM D5185(m) ASTM D5185(m)		62		
Phosphorus	ppm	ASTM D5185(m)		315		
Zinc	ppm	ASTM D5185(m) ASTM D5185(m)		410		
Sulfur	ppm ppm	ASTM D5185(m)		6990		
Acid Number (AN)		ASTM D5185(III) ASTM D974*		0.61		
Visc @ 40°C	mg KOH/g		68			
	cSt	ASTM D7279(m)	00	67.2		



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CANSHIP UGLAND - SVANOY** CALA 1315 TOPSAIL ROAD, PO BOX 8040 STN A Sample No. Received : WC0861275 : 21 Jun 2024 Lab Number : 02643458 Tested ST JOHNS, NL : 24 Jun 2024 ISO 17025:2017 Accredited Laboratory : 24 Jun 2024 - Kevin Marson CA AIB 3M7 Unique Number : 5800997 Diagnosed Test Package : MAR 2 (Additional Tests: PrtCount, TAN Man) Contact: Guillaume Bernier To discuss this sample report, contact Customer Service at 1-800-268-2131. gbernier@canship.com T: Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: Validity of results and interpretation are based on the sample and information as supplied.