

## Machine Id **TA4 - CROSSOVER RECLAIM** Component **Gearbox** Fluid **GEAR OIL ISO 220 (--- QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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All component wear rates are normal.

## CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

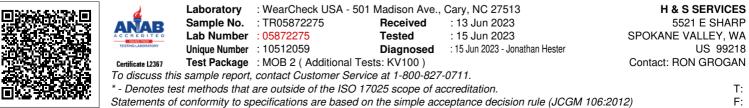
**FLUID CONDITION** 

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		TR05872275		
Sample Date		Client Info		01 Jun 2023		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		1		
Filter Age	yrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>200	5		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>200	<1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon		ASTM D5185m	>50	▲ 121		
	ppm					
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>0.2	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	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	ppm	ASTM D5185m		0		
Boron	ppm	ASTM D5185m	50	0		
Barium	ppm	ASTM D5185m	15	0		
Molybdenum	ppm	ASTM D5185m	15	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	50	0		
Calcium	ppm	ASTM D5185m	50	22		
Phosphorus	ppm	ASTM D5185m	350	355		
Zinc	ppm	ASTM D5185m	100	437		
Sulfur	ppm	ASTM D5185m	12500	1151		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.45		
Visc @ 100°C	cSt	ASTM D445	19.0	14.4		
	001	101101-0440	10.0			

Contact/Location: RON GROGAN - HSSSPO





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