OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

TA4 - TANK 2 CONVEYOR

Component **Gearbox**

GEAR OIL ISO 220 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. We recommend an early resample to monitor this condition.	Sample Number		Client Info		TR05872271		
	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		
WEAR	Iron	ppm	ASTM D5185m	>200	29		
All component wear rates are normal.	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	LIGHT		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Elemental level of silicon (Si) above normal indicating ingress of seal material.	Silicon	ppm	ASTM D5185m	>50	<u> </u>		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	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		<1		
	Calcium	ppm	ASTM D5185m		22		
	Phosphorus	ppm	ASTM D5185m		323		
	Zinc	ppm	ASTM D5185m		387		
	Sulfur	ppm	ASTM D5185m		5376		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.48		
	Visc @ 100°C	cSt	ASTM D445	19.0	15.1		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 05872271

: TR05872271 Unique Number : 10512055

Received : 13 Jun 2023 **Tested** Diagnosed

: 15 Jun 2023 : 15 Jun 2023 - Jonathan Hester

5521 E SHARP SPOKANE VALLEY, WA US 99218

Contact: RON GROGAN

H & S SERVICES

Test Package : MOB 2 (Additional Tests: KV100) To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

T:

F: