WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ATTENTION

Machine Id

C6028

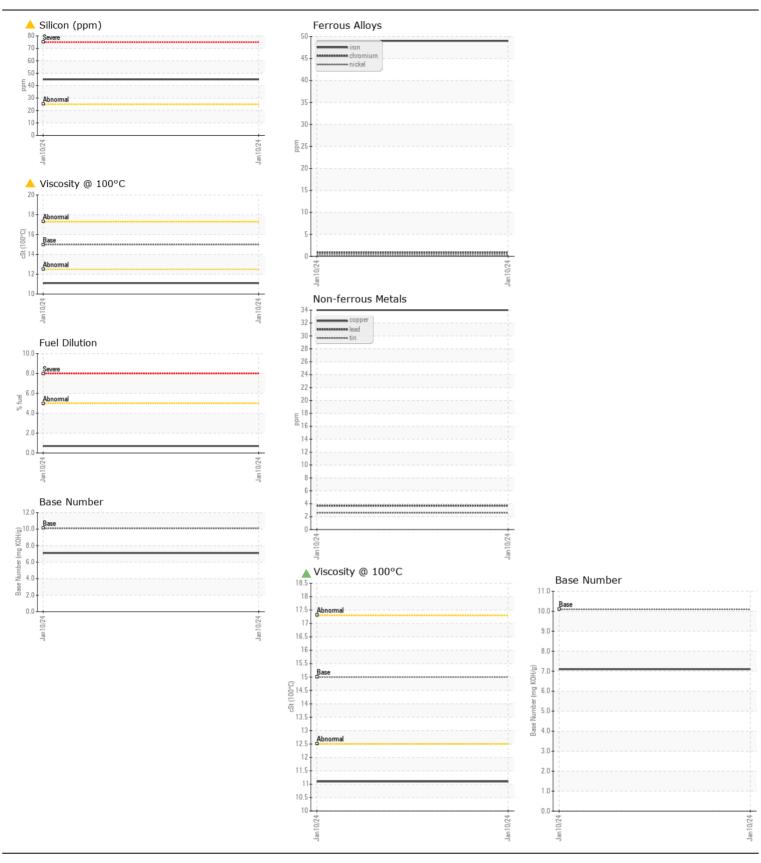
Component
Discal Fngine

SHELL ROTELLA T4 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0866869		
	Sample Date		Client Info		10 Jan 2024		
	Machine Age	hrs	Client Info		361		
	Oil Age	hrs	Client Info		361		
	Filter Age	hrs	Client Info		361		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	49		
	Chromium	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>20	11		
	Lead	ppm	ASTM D5185m	>40	4		
	Copper	ppm	ASTM D5185m	>330	34		
	Tin	ppm	ASTM D5185m	>15	3		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Ciliaan		ACTM DE10Em	. 05	A A E		
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Silicon	ppm	ASTM D5185m		▲ 45 37		
	Potassium Fuel	ppm %	ASTM D5185m ASTM D3524		0.7		
	Water	/0	WC Method		NEG		
	Glycol		WC Method	<i>></i> 0.∠	NEG		
	Soot %	%	*ASTM D7844	\3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.4		
	Sulfation	Abs/.1mm	*ASTM D7415		19.1		
	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	nnm	ASTM D5185m		4		
FLUID CONDITION	Boron	ppm	ASTM D5185m		68		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		16		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m		724		
	Calcium	ppm	ASTM D5185m		1401		
	Phosphorus	ppm	ASTM D5185m		736		
	Zinc	ppm	ASTM D5185m		858		
	Sulfur	ppm	ASTM D5185m		2968		
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	15.1		
	Base Number (BN)		ASTM D2896		7.1		
	Dago Number (DIV)	mg Norry	, 10 TW D2000	10.1			

Visc @ 100°C cSt

11.1

ASTM D445 15







Certificate L2367

Report Id: GUYGRE [WUSCAR] 06062426 (Generated: 01/20/2024 01:29:50) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: WC0866869 : 06062426 : 10833808

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 Diagnosed : 19 Jan 2024

Diagnostician : Don Baldridge **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

GUY M TURNER & TURNER TRANSFER 4505 SOUTH HOLDEN ROAD

GREENSBORO, NC US 27406 Contact: ROGER HIXSON

rhixson@guymturner.com T: (336)294-4660 F: (336)294-6644

Contact/Location: ROGER HIXSON - GUYGRE