WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

ZF ZF GEARS (S/N NOT GIVEN)

Port Gearbox

SAE 30W (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		VPA053365		
	Sample Date		Client Info		10 Jul 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
/EAD	DO		AOTM D0404				
/EAR	PQ		ASTM D8184	000	39		
All component wear rates are normal.	Iron	ppm	ASTM D5185m		38		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	0.5	<1		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		25		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m	NONE	<1 NOVE		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>50	10		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	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		
LUID CONDITION	Sodium	nnm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m		24		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		13		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		176		
	Calcium	ppm	ASTM D5185m		3178		
	Phosphorus	ppm	ASTM D5185m		890		
	Zinc	ppm	ASTM D5185m		1022		
	Sulfur	ppm	ASTM D5185m		7453		
	Guilai	ppill	AO INI DO IOOIII		7400		







Laboratory Sample No. Lab Number Unique Number : 11117039

: VPA053365 : 06233546

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 12 Jul 2024 : 13 Jul 2024 - Don Baldridge Diagnosed

: 11 Jul 2024

12741 Sunset Ave

Edward`s Marine and Sons

OCEAN CITY, MD US 21842

Test Package: MOB 1 (Additional Tests: PQ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: Edward Bartholme edwardsmarine@comcast.net;canastasio@wearcheckusa.com T:

* - 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)

Report Id: VP551029 [WUSCAR] 06233546 (Generated: 07/13/2024 12:04:18) Rev: 1

Contact/Location: Edward Bartholme - VP551029

F: