WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

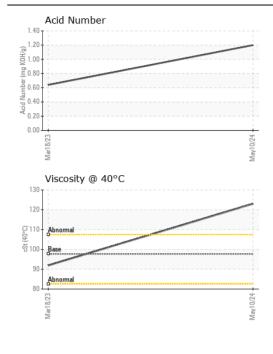
SEAWARD ENDEAVOR

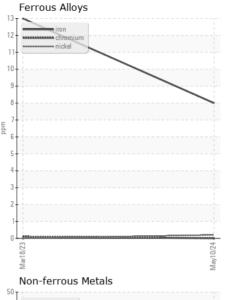
Endeavor

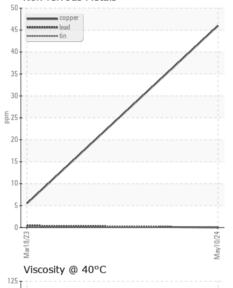
Port Reduction Gear

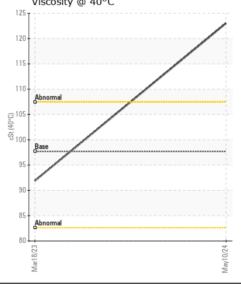
CHELL ROTELLA T 30 (9 GAL)

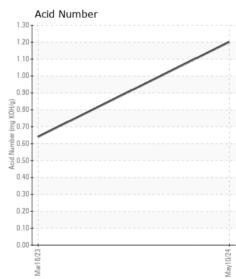
SHELL ROTELLA T 30 (9 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0907673	WC0779522	
	Sample Date		Client Info		10 May 2024	18 Mar 2023	
	Machine Age	hrs	Client Info		17246	13183	
	Oil Age	hrs	Client Info		0	13183	
	Filter Age	hrs	Client Info		0	13183	
	Oil Changed		Client Info		N/A	Not Changd	
	Filter Changed		Client Info		N/A	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>150	8	13	
	Chromium	ppm	ASTM D5185m		0	<1	
All component wear rates are normal.	Nickel		ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	>10	0	<1	
	Silver		ASTM D5185m		0	3	
	Aluminum	ppm	ASTM D5185m	>25	1	3	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		46	6	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
			····				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	13	19	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	
	Water		WC Method	>0.1	NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		13	7	
	Boron	ppm	ASTM D5185m	0	2	363	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	0	<1	43	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		245	43	
	Calcium	ppm	ASTM D5185m	1890	3630	3710	
	Phosphorus	ppm	ASTM D5185m		909	939	
	Zinc	ppm	ASTM D5185m		1006	1064	
	Sulfur	ppm	ASTM D5185m		5042	4814	
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.20	0.64	
	Visc @ 40°C	cSt	ASTM D445	97.7	123	91.9	
Report Id: SEANEW [WLISCAR] 06211915 (Generated: 06/22/2024 00:42:34) Rev: 1					PETER CHA		













Certificate L2367

Report Id: SEANEW [WUSCAR] 06211915 (Generated: 06/22/2024 00:42:36) Rev: 1

Laboratory Sample No.

: WC0907673 Lab Number : 06211915 Unique Number : 11084779 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 18 Jun 2024

Diagnosed

: 19 Jun 2024 - Angela Borella

NEW ALBANY, IN US 47150 Contact: PETER CHARBONNET

SEAWARD SERVICES

222 PEARL ST

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. PCHARBONNET@HMS-SEAWARD.COM T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: PETER CHARBONNET - SEANEW

F: