WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

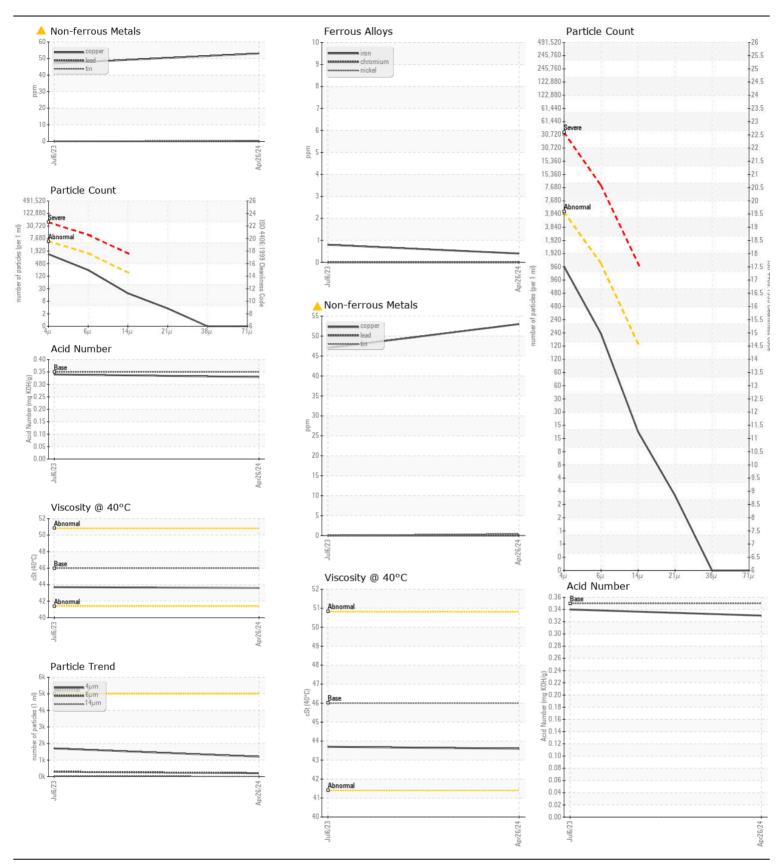
Machine Id

ENDEAVOR - CLUTCH (S/N 963268)

Port Hydraulic System

SHELL TELLUS S2 MX 46 (30 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0834568	,	,
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		26 Apr 2024	06 Jul 2023	
	Machine Age	hrs	Client Info		15478	13761	
	Oil Age	hrs	Client Info		0	13761	
	Filter Age	hrs	Client Info		0	13761	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	0	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>20	<1	<1	
WEAT	Chromium	ppm	ASTM D5185m		0	0	
The copper level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>20	0	0	
	Lead	ppm	ASTM D5185m	>20	0	0	
	Copper	ppm	ASTM D5185m	>20	5 3	<u>4</u> 7	
	Tin	ppm	ASTM D5185m	>20	<1	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	<15	<1	0	
CONTAMINATION	Potassium	ppm	ASTM D5185m		0	0	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water	ррпп	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		1203	1704	
	Particles >6µm		ASTM D7647		207	294	
	Particles >14µm		ASTM D7647		16	21	
	Particles >21µm		ASTM D7647		3	4	
	Particles >38µm		ASTM D7647	>10	0	1	
	Particles >71μm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11	18/15/12	
	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	>0.05	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	<1	
LOID CONDITION	Boron	ppm	ASTM D5185m	0	0	0	
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	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		0	0	
	Calcium	ppm	ASTM D5185m		76	82	
	Phosphorus	ppm	ASTM D5185m	300	314	328	
	Zinc	ppm	ASTM D5185m	325	380	402	
	Sulfur	ppm	ASTM D5185m	665	1640	1810	
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.35	0.33	0.34	
	Visc @ 40°C	cSt	ASTM D445	46.0	43.6	43.7	





Certificate L2367

Laboratory Sample No. Lab Number

: WC0834568 : 06177073 Unique Number: 11023126 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024 **Tested**

: 14 May 2024 : 17 May 2024 - Jonathan Hester Diagnosed

CITY EXPERIENCES - SEAWARD EXPLORER

2825 5TH AVENUE SAN DIEGO, CA US 92103

Contact: PETER CHARBONNET

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)

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