WEAR CONTAMINATION FLUID CONDITION

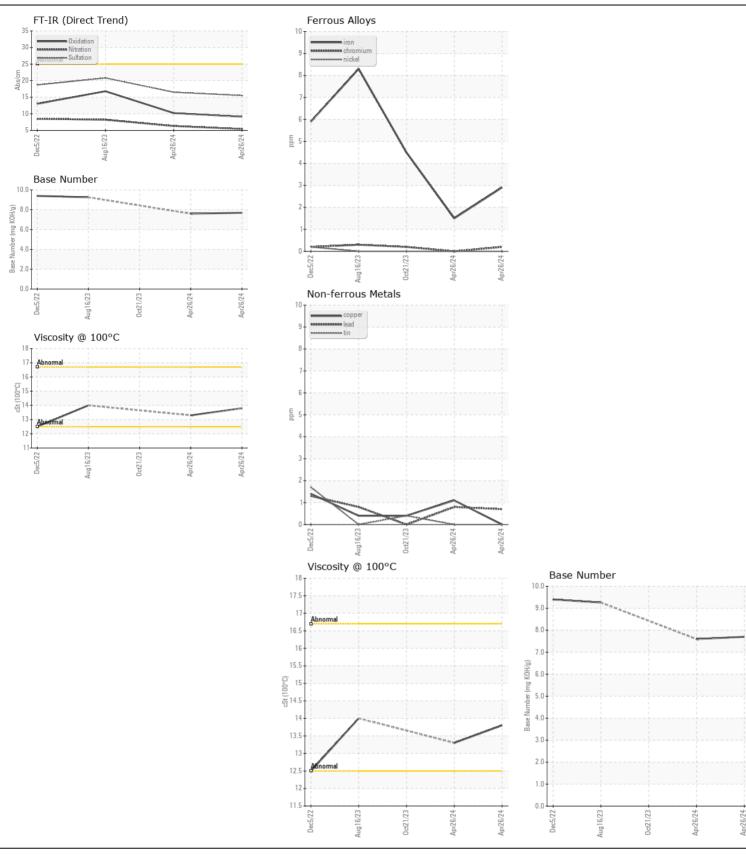
NORMAL NORMAL NORMAL

Machine Id

ENDEAVOR

Port Main Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	JOIVI	Client Info	EITHU/AU/I	WC0834573		
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		26 Apr 2024	26 Apr 2024	21 Oct 2023
	Machine Age	hrs	Client Info		15478	16913	15808
	Oil Age	hrs	Client Info		72	93	435
	Filter Age	hrs	Client Info		72	93	435
	Oil Changed		Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Not Changd	Not Changd	Not Change
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	2	3	4
VEAIT	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	3
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	<1	1
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		1	0	<1
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	4	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	2	3
	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol	21	WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	00	0.1	0	
	Nitration	Abs/cm	*ASTM D7624	>20	5.4	6.3	
	Sulfation	Abs/.1mm	*ASTM D7415		15.5	16.5	ALONIE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM NORM
	Odor Emulsified Water	scalar	*Visual	NORML >0.1	NORML NEG	NORML NEG	NEG
<u></u>			Visuai	>0.1		INLG	INLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>75	<1	<1	1
	Boron	ppm	ASTM D5185m		16	19	78
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		5	6	25
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		48	57	214
	Calcium	ppm	ASTM D5185m		2414	2438	2217
	Phosphorus	ppm	ASTM D5185m		969	968	1045
	Zinc	ppm	ASTM D5185m		1144	1154	1294
	Sulfur	ppm	ASTM D5185m		4527	4499	3921
	Oxidation	Abs/.1mm	*ASTM D7414	>25	9.1	10.2	
	Base Number (BN)	mg KOH/g	ASTM D2896		7.7	7.6	
	Visc @ 100°C		ASTM D445		13.8	13.3	







Certificate L2367

Laboratory

Sample No. Lab Number : 06176945

: WC0834573 Unique Number : 11022998 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024 **Tested** : 14 May 2024

Diagnosed : 14 May 2024 - Wes Davis

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)

T: (985)290-6777 F: