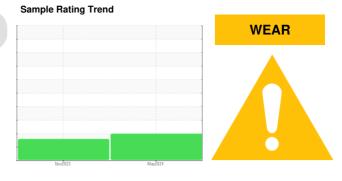


OIL ANALYSIS REPORT

SEAWARD EXPLORER **Explorer - 2 Genset PTO Hub**

Distribution Gear

GEAR OIL SAE 80W90 (2 GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Gear wear is indicated.

Contamination

There is no indication of any contamination in the

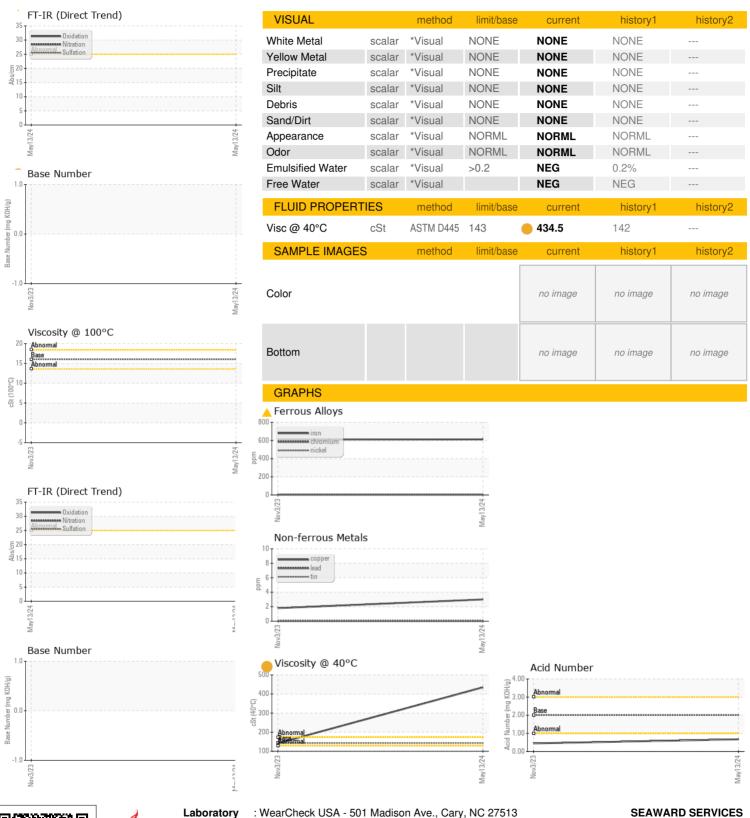
Fluid Condition

Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0907668	WC0859386	
Sample Date		Client Info		13 May 2024	03 Nov 2023	
Machine Age	hrs	Client Info		12106	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>300	<u></u> 612	△ 609	
Chromium	ppm	ASTM D5185m	>3	<u></u> 4	<u>4</u>	
Nickel	ppm	ASTM D5185m	>10	3	2	
Titanium	ppm	ASTM D5185m		1	1	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>5	8	2	
Lead	ppm	ASTM D5185m	>60	0	0	
Copper	ppm	ASTM D5185m	>35	3	2	
Tin	ppm	ASTM D5185m	>5	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	12	17	
Barium	ppm	ASTM D5185m	200	<1	0	
Molybdenum	ppm	ASTM D5185m	12	<1	2	
Manganese	ppm	ASTM D5185m		7	9	
Magnesium	ppm	ASTM D5185m	12	13	8	
Calcium	ppm	ASTM D5185m	150	46	18	
Phosphorus	ppm	ASTM D5185m	1650	341	1230	
Zinc	ppm	ASTM D5185m	125	31	4	
Sulfur	ppm	ASTM D5185m	22500	21508	17527	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	8	
Sodium	ppm	ASTM D5185m	>170	4	2	
Potassium	ppm	ASTM D5185m	>20	2	4	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	0.674	0.45	



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: WC0907668 Lab Number : 06211326 Unique Number : 11084190

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 21 Jun 2024

Diagnosed : 21 Jun 2024 - Jonathan Hester Test Package: MAR 2 (Additional Tests: FT-IR, KV100, TBN)

222 PEARL ST NEW ALBANY, IN US 47150 Contact: PETER CHARBONNET PCHARBONNET@HMS-SEAWARD.COM

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:

F: