



PROBLEM SUMMARY

Sample Rating Trend



WEAR



Area
SEAWARD EXPLORER
 Machine Id
Explorer - 2 Genset PTO Hub
 Component
Distribution Gear
 Fluid
GEAR OIL SAE 80W90 (2 GAL)

COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>300	▲ 609	---	---
Chromium	ppm	ASTM D5185m	>3	▲ 4	---	---

Customer Id: SEANEW
 Sample No.: WC0859386
 Lab Number: 06007815
 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

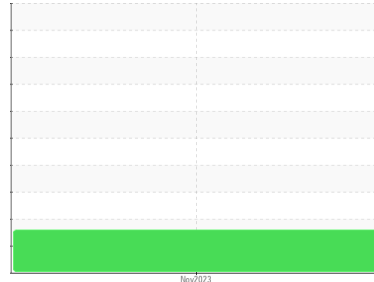
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
SEAWARD EXPLORER
 Machine Id
Explorer - 2 Genset PTO Hub
 Component
Distribution Gear
 Fluid
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. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0859386	---	---
Sample Date	Client Info		03 Nov 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		Not Changed	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >300	▲ 609	---	---
Chromium	ppm	ASTM D5185m >3	▲ 4	---	---
Nickel	ppm	ASTM D5185m >10	2	---	---
Titanium	ppm	ASTM D5185m	1	---	---
Silver	ppm	ASTM D5185m	<1	---	---
Aluminum	ppm	ASTM D5185m >5	2	---	---
Lead	ppm	ASTM D5185m >60	0	---	---
Copper	ppm	ASTM D5185m >35	2	---	---
Tin	ppm	ASTM D5185m >5	0	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	17	---	---
Barium	ppm	ASTM D5185m 200	0	---	---
Molybdenum	ppm	ASTM D5185m 12	2	---	---
Manganese	ppm	ASTM D5185m	9	---	---
Magnesium	ppm	ASTM D5185m 12	8	---	---
Calcium	ppm	ASTM D5185m 150	18	---	---
Phosphorus	ppm	ASTM D5185m 1650	1230	---	---
Zinc	ppm	ASTM D5185m 125	4	---	---
Sulfur	ppm	ASTM D5185m 22500	17527	---	---

CONTAMINANTS

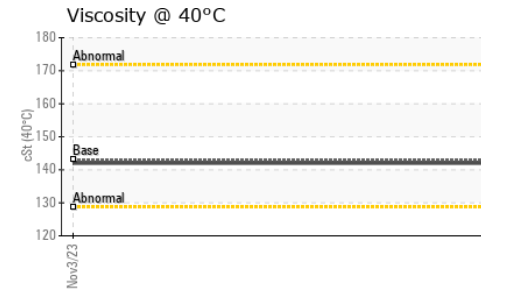
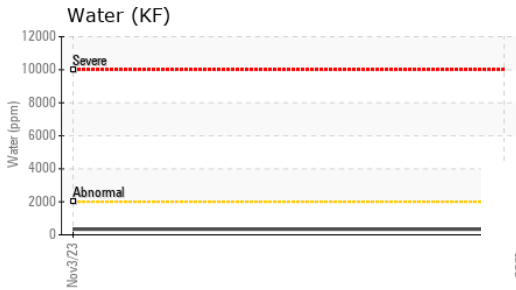
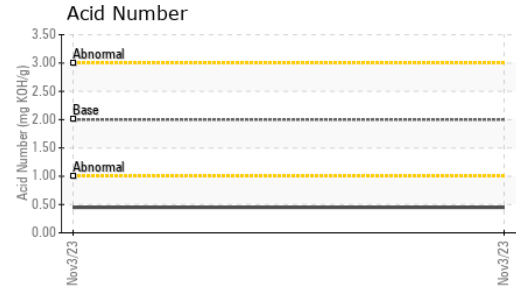
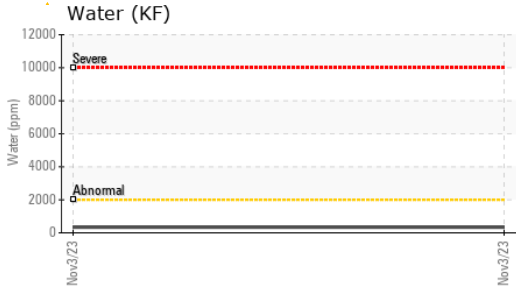
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	---	---
Sodium	ppm	ASTM D5185m >170	2	---	---
Potassium	ppm	ASTM D5185m >20	4	---	---
Water	%	ASTM D6304 >0.2	0.034	---	---
ppm Water	ppm	ASTM D6304 >2000	340	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 2.00	0.45	---	---



OIL ANALYSIS REPORT



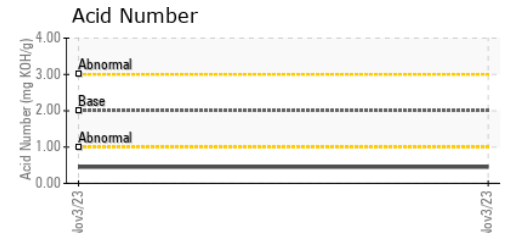
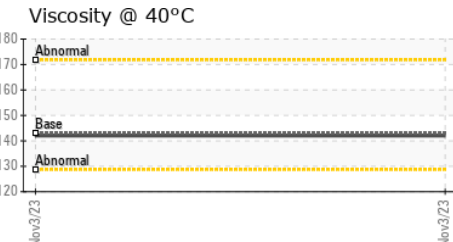
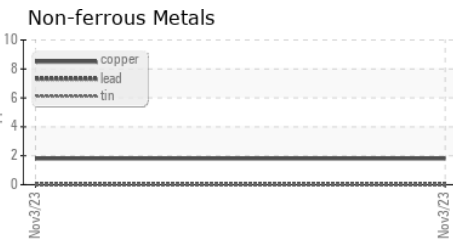
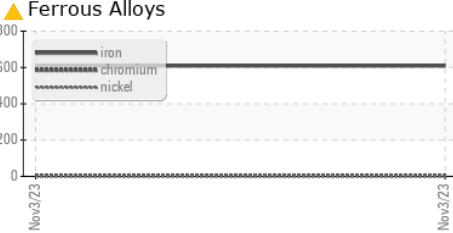
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 143	142	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0859386 **Received** : 14 Nov 2023
Lab Number : 06007815 **Diagnosed** : 16 Nov 2023
Unique Number : 10741577 **Diagnostician** : Don Baldrige
Test Package : MAR 2 (Additional Tests: KF)

SEAWARD SERVICES
 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)