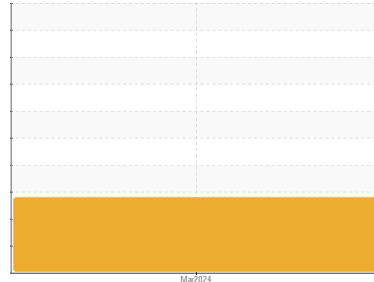




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
M-231

Component
Gearbox

Fluid
MOBIL SHC 630 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

▲ Wear

The aluminum level is abnormal. All other component wear rates are normal.

▲ Contamination

There is a high amount of particulates present 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	USP0008211	---	---
Sample Date	Client Info	22 Mar 2024	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >200	11	---	---
Chromium ppm	ASTM D5185m >15	<1	---	---
Nickel ppm	ASTM D5185m >15	0	---	---
Titanium ppm	ASTM D5185m	0	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >25	▲ 25	---	---
Lead ppm	ASTM D5185m >100	0	---	---
Copper ppm	ASTM D5185m >200	<1	---	---
Tin ppm	ASTM D5185m >25	0	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<1	---	---
Barium ppm	ASTM D5185m	0	---	---
Molybdenum ppm	ASTM D5185m	29	---	---
Manganese ppm	ASTM D5185m	1	---	---
Magnesium ppm	ASTM D5185m	0	---	---
Calcium ppm	ASTM D5185m	<1	---	---
Phosphorus ppm	ASTM D5185m	404	---	---
Zinc ppm	ASTM D5185m	14	---	---
Sulfur ppm	ASTM D5185m	1072	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >50	14	---	---
Sodium ppm	ASTM D5185m	0	---	---
Potassium ppm	ASTM D5185m >20	<1	---	---
Water %	ASTM D6304 >0.2	0.052	---	---
ppm Water	ASTM D6304 >2000	525	---	---

FLUID CLEANLINESS

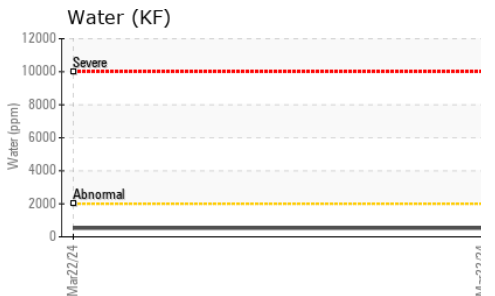
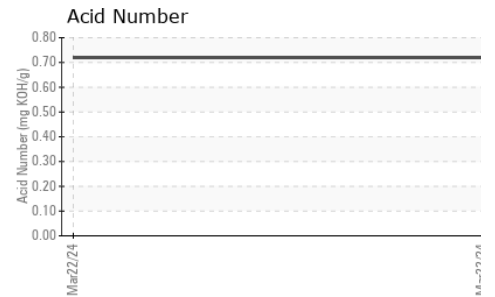
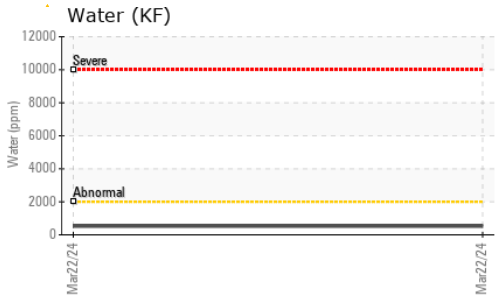
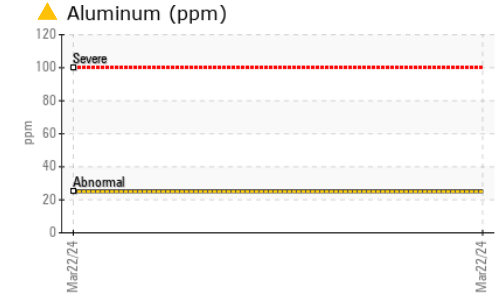
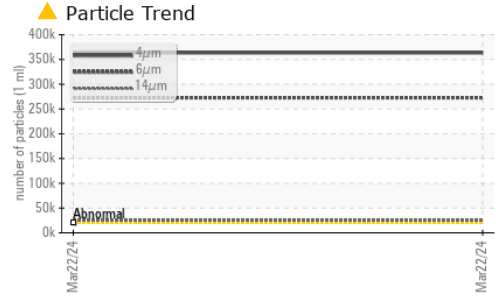
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ 363574	---	---
Particles >6µm	ASTM D7647 >5000	▲ 272732	---	---
Particles >14µm	ASTM D7647 >640	▲ 24757	---	---
Particles >21µm	ASTM D7647 >160	▲ 1426	---	---
Particles >38µm	ASTM D7647 >40	10	---	---
Particles >71µm	ASTM D7647 >10	1	---	---
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ 26/25/22	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.72	---	---



OIL ANALYSIS REPORT



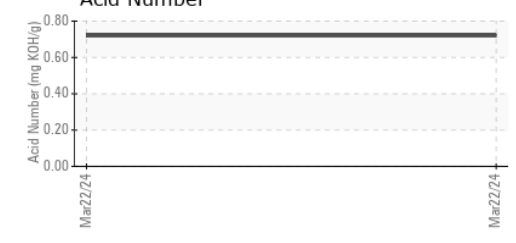
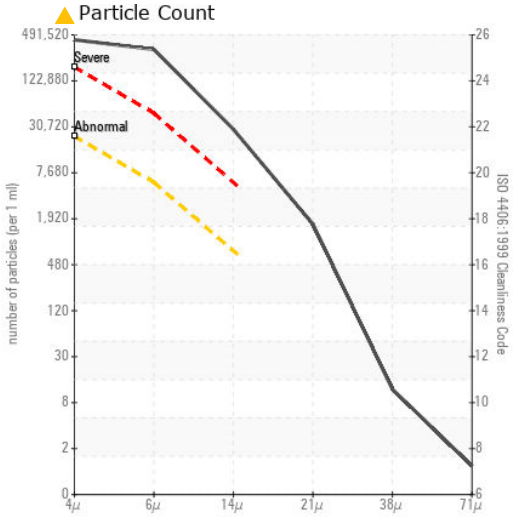
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	217.7	241	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0008211 **Received** : 01 Apr 2024
Lab Number : 06135013 **Tested** : 02 Apr 2024
Unique Number : 10954478 **Diagnosed** : 03 Apr 2024 - Doug Bogart
Test Package : IND 2

POET BIOPROCESSING
 3638 FIR AVE
 HANLONTOWN, IA
 US 50444
 Contact: Service Manager

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: