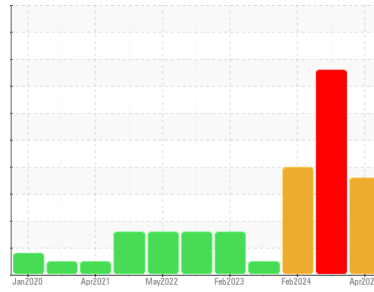




OIL ANALYSIS REPORT

Area
DRYERS
 Machine Id
C-611
 Component
Gearbox
 Fluid
MOBIL SHC 630 (1 LTR)

Sample Rating Trend



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

Wear

Moderate concentration of visible metal present. Gear wear is indicated.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

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		WC0929824	WC0919943	WC0906812
Sample Date	Client Info		09 Apr 2024	21 Mar 2024	14 Feb 2024
Machine Age	yrs	Client Info	0	24	24
Oil Age	yrs	Client Info	0	2	2
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			ABNORMAL	SEVERE	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	▲ 348	▲ 808	▲ 323
Chromium	ppm	ASTM D5185m >15	2	6	3
Nickel	ppm	ASTM D5185m >15	4	4	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	<1	1	0
Lead	ppm	ASTM D5185m >100	0	1	<1
Copper	ppm	ASTM D5185m >200	0	2	1
Tin	ppm	ASTM D5185m >25	0	0	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	0
Manganese	ppm	ASTM D5185m	4	7	2
Magnesium	ppm	ASTM D5185m	2	<1	<1
Calcium	ppm	ASTM D5185m	9	5	3
Phosphorus	ppm	ASTM D5185m	462	456	322
Zinc	ppm	ASTM D5185m	0	2	8
Sulfur	ppm	ASTM D5185m	206	0	32

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	▲ 55	43	▲ 77
Sodium	ppm	ASTM D5185m	12	0	<1
Potassium	ppm	ASTM D5185m >20	0	1	<1

FLUID CLEANLINESS

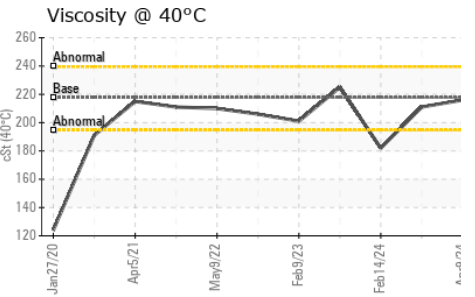
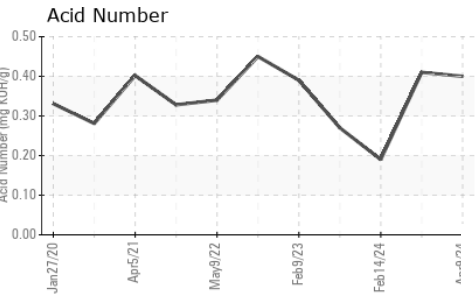
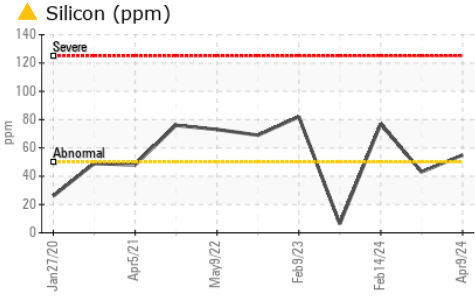
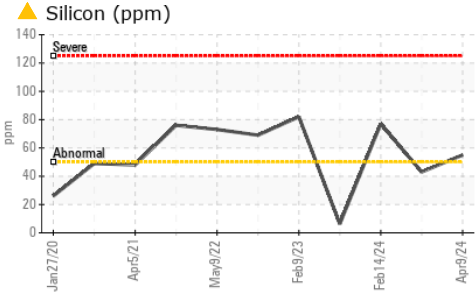
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	---	---
Particles >6µm	ASTM D7647	>5000	---	---	---
Particles >14µm	ASTM D7647	>640	---	---	---
Particles >21µm	ASTM D7647	>160	---	---	---
Particles >38µm	ASTM D7647	>40	---	---	---
Particles >71µm	ASTM D7647	>10	---	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	---	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.41	0.19



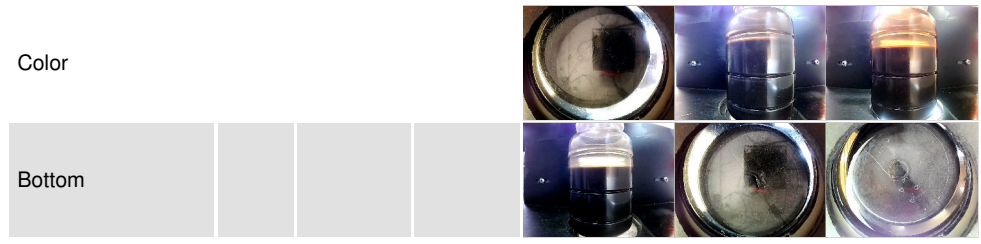
OIL ANALYSIS REPORT



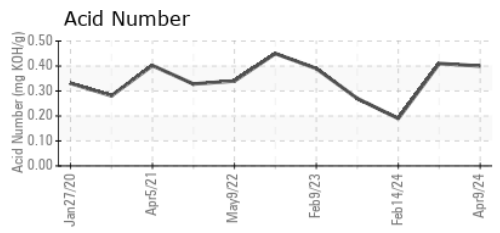
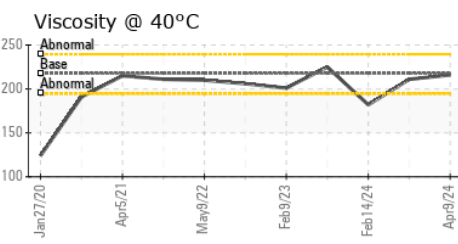
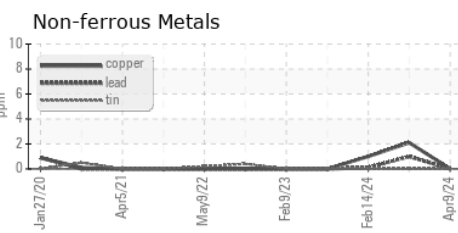
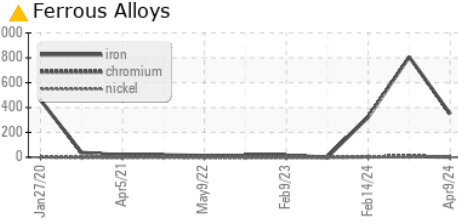
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	▲ MODER	▲ HEAVY	▲ HEAVY
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ HEAVY	NONE
Sand/Dirt	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	217.7	216	211	● 182

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0929824 **Received** : 11 Apr 2024
Lab Number : 06145823 **Tested** : 16 Apr 2024
Unique Number : 10975901 **Diagnosed** : 16 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

POET BIOREFINING - Groton
 40425 133RD STREET
 GROTON, SD
 US 57445-6400
 Contact: GAVIN KRUEGER
 Gavin.Krueger@POET.COM
 T: 6(05)846-6863
 F: (605)397-2754

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)