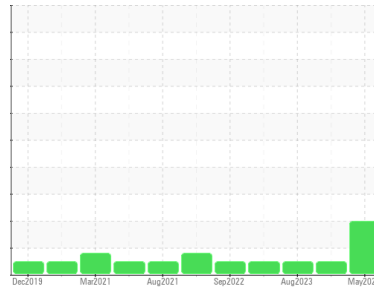




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
COOLING TOWER PUMP MOTORS

Machine Id
P-755-LOWER

Component
Bearing

Fluid
MOBIL SHC 626 (2 QTS)

DIAGNOSIS

Recommendation

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

Wear

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

Contamination

There is a high amount of silt (particulates < 14 microns in size) 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		WC0941009	WC0866653	WC0844686
Sample Date	Client Info		29 May 2024	11 Oct 2023	04 Aug 2023
Machine Age	mths	Client Info	12	12	12
Oil Age	mths	Client Info	0	2	3
Oil Changed	Client Info		N/A	Not Changd	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	▲ 28	4	11
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	0	0	<1
Lead	ppm	ASTM D5185m >20	0	0	0
Copper	ppm	ASTM D5185m >20	<1	<1	2
Tin	ppm	ASTM D5185m >20	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	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	0	0
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m	8	0	1
Calcium	ppm	ASTM D5185m	12	0	2
Phosphorus	ppm	ASTM D5185m	480	495	552
Zinc	ppm	ASTM D5185m	59	24	128
Sulfur	ppm	ASTM D5185m	124	127	434

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	0	0	<1
Sodium	ppm	ASTM D5185m	19	4	10
Potassium	ppm	ASTM D5185m >20	2	0	0

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 103333	6775	7275
Particles >6µm	ASTM D7647	>2500	▲ 7025	1585	1089
Particles >14µm	ASTM D7647	>160	112	101	25
Particles >21µm	ASTM D7647	>40	24	17	4
Particles >38µm	ASTM D7647	>10	2	1	1
Particles >71µm	ASTM D7647	>3	0	1	1
Oil Cleanliness	ISO 4406 (c)	>20/18/14	▲ 24/20/14	20/18/14	20/17/12

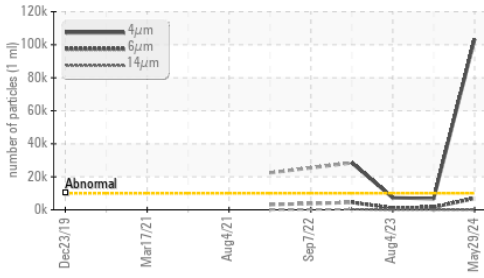
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.29	0.38	0.28

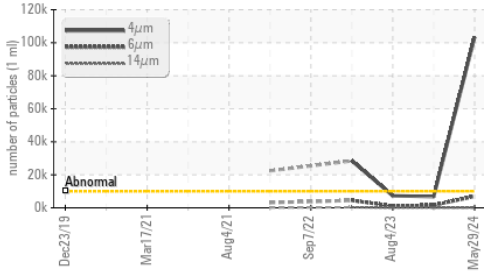


OIL ANALYSIS REPORT

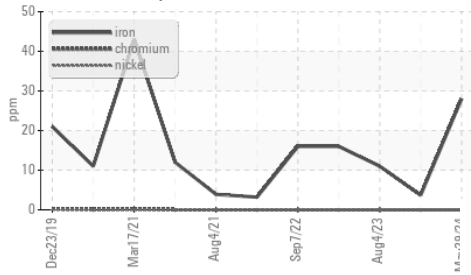
▲ Particle Trend



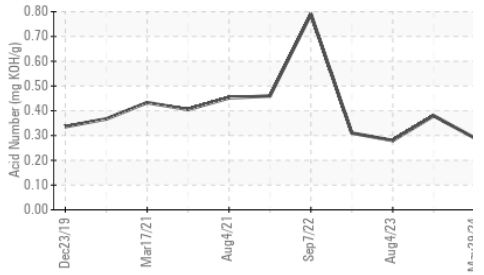
▲ Particle Trend



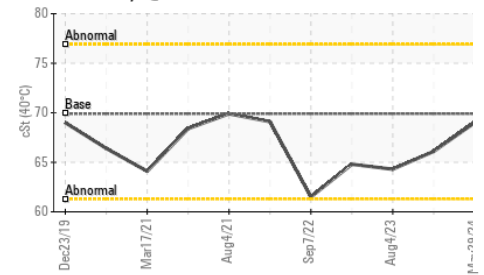
▲ Ferrous Alloys



Acid Number



Viscosity @ 40°C

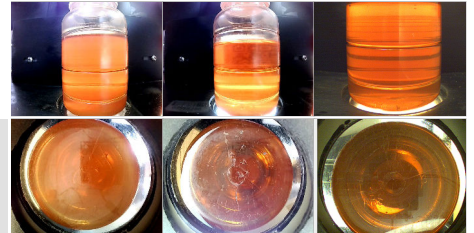


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	69.9	69.0	66.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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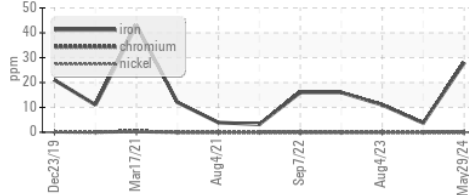
Color



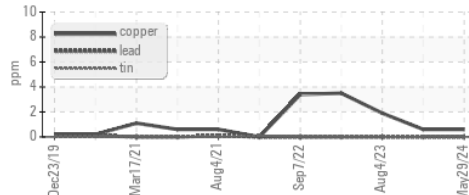
Bottom

GRAPHS

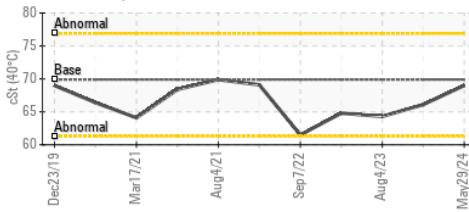
▲ Ferrous Alloys



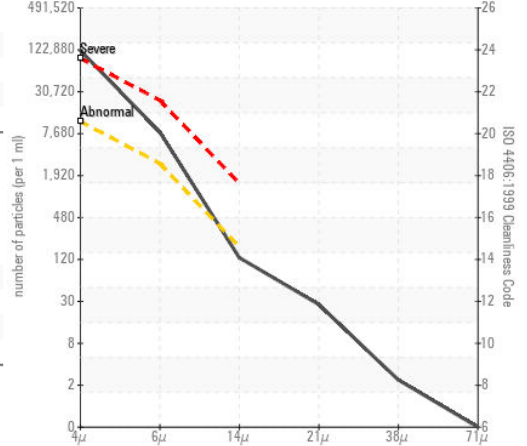
Non-ferrous Metals



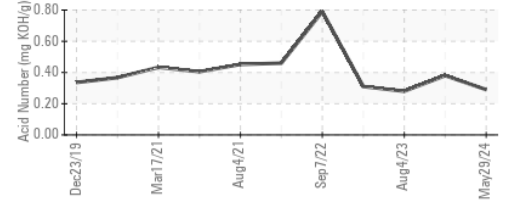
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0941009

Lab Number : 06196656

Unique Number : 11058779

Test Package : IND 2 (Additional Tests: PrtCount)

Received : 31 May 2024

Tested : 05 Jun 2024

Diagnosed : 05 Jun 2024 - Jonathan Hester

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)