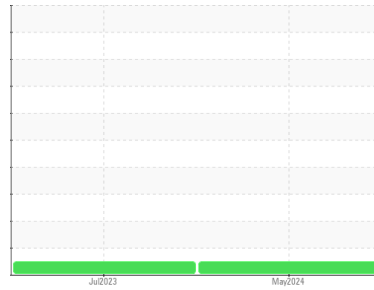




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

{UNASSIGNED}

Machine Id

**PALEXTRA 44 Main Storage**

Component

**New (Unused) Oil**

Fluid

**ULTRACHEM PALEXTRA 44 (75 GAL)**

## DIAGNOSIS

### Recommendation

This is a baseline read-out on the submitted sample.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0929837</b>	WC0840666	---
Sample Date	Client Info			<b>29 May 2024</b>	24 Jul 2023	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	0.3	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	0.3	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	0.4	<b>0</b>	<1	---
Calcium	ppm	ASTM D5185m	0	<b>0</b>	2	---
Phosphorus	ppm	ASTM D5185m	689	<b>691</b>	657	---
Zinc	ppm	ASTM D5185m	0	<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m	1237	<b>1394</b>	1191	---

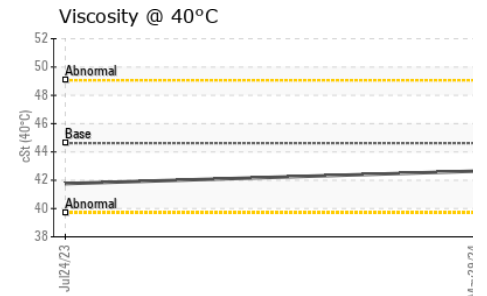
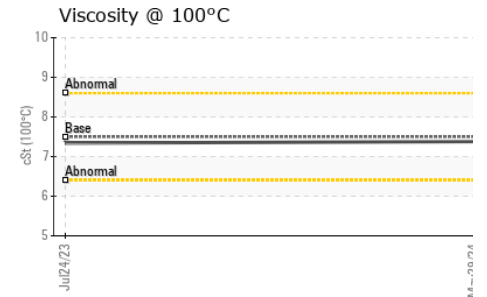
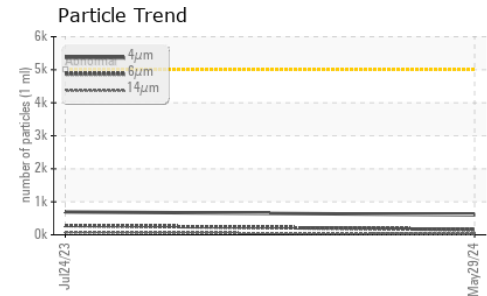
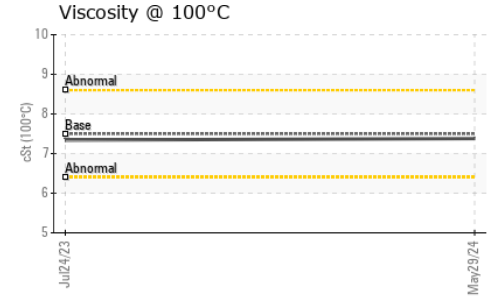
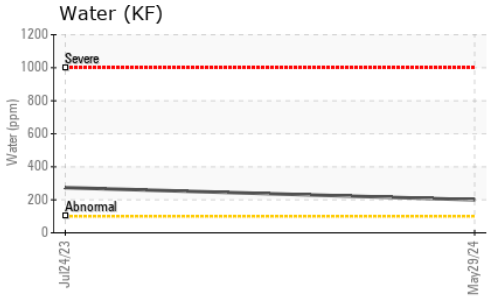
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>1</b>	2	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Water	%	ASTM D6304		<b>0.020</b>	0.027	---
ppm Water	ppm	ASTM D6304		<b>200</b>	273.9	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>605</b>	694	---
Particles >6µm		ASTM D7647	>1300	<b>158</b>	281	---
Particles >14µm		ASTM D7647	>160	<b>26</b>	73	---
Particles >21µm		ASTM D7647	>40	<b>11</b>	18	---
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>16/14/12</b>	17/15/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.135	<b>0.056</b>	0.047	---



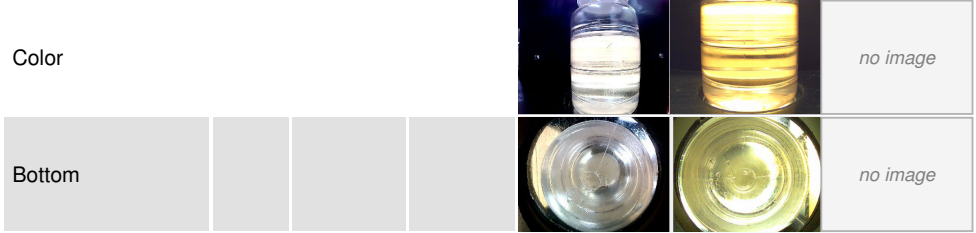
# OIL ANALYSIS REPORT



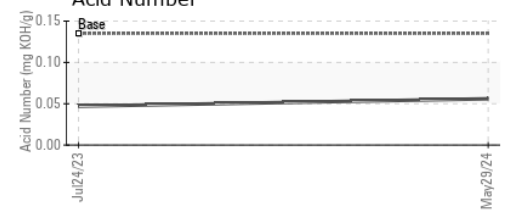
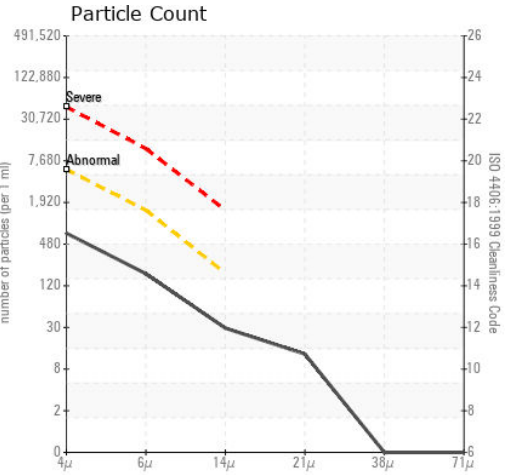
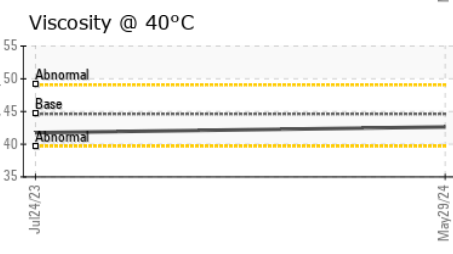
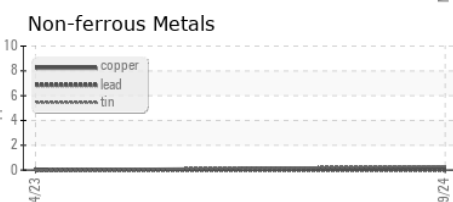
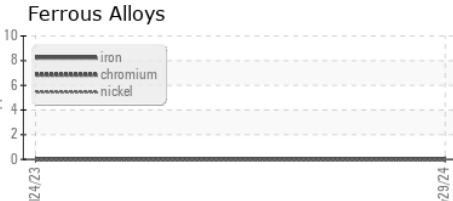
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	44.62	<b>42.64</b>	41.76	---
Visc @ 100°C	cSt	ASTM D445	7.5	<b>7.38</b>	7.34	---
Viscosity Index (VI)	Scale	ASTM D2270	134	<b>138</b>	141	---

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0929837      **Received** : 31 May 2024  
**Lab Number** : **06197179**      **Tested** : 05 Jun 2024  
**Unique Number** : 11059302      **Diagnosed** : 05 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, VI )

**POET BIOREFINING - Groton**  
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 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)