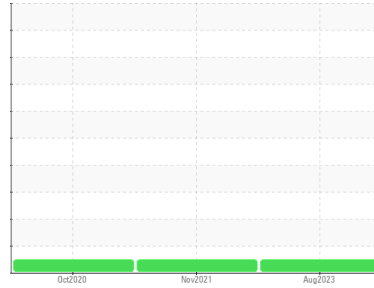


# OIL ANALYSIS REPORT

**Sample Rating Trend**
**NORMAL**


Area  
**24A**  
Machine Id  
**[24A] 24A Calender Pinion**  
Component  
**Circulating System**  
Fluid  
**MOBIL SHC 630 (--- GAL)**

**DIAGNOSIS**
**Recommendation**

Resample at the next service interval to monitor.  
Particle Count ran inadvertently.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil.

**Fluid Condition**

The condition of the oil is acceptable for the time in service.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0076292</b>	PCA0049848	PCA0024785
Sample Date	Client Info		<b>15 Aug 2023</b>	04 Nov 2021	22 Oct 2020
Machine Age	hrs	Client Info	<b>8760</b>	0	0
Oil Age	hrs	Client Info	<b>8760</b>	0	0
Oil Changed	Client Info		<b>Oil Added</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	<b>4</b>	3	3
Chromium	ppm	ASTM D5185m	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185m	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185m	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>53</b>	26	23
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<b>2</b>	0	7
Phosphorus	ppm	ASTM D5185m	<b>285</b>	362	329
Zinc	ppm	ASTM D5185m	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>8701</b>	9466	8810

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<b>2</b>	2	4
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	0

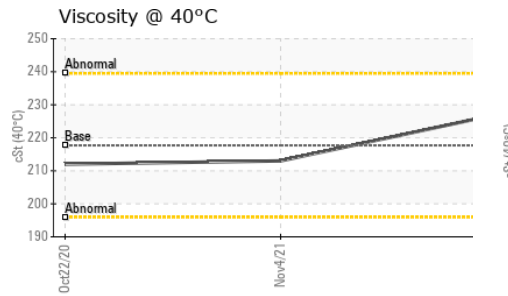
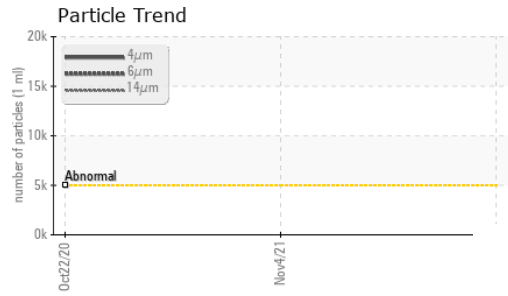
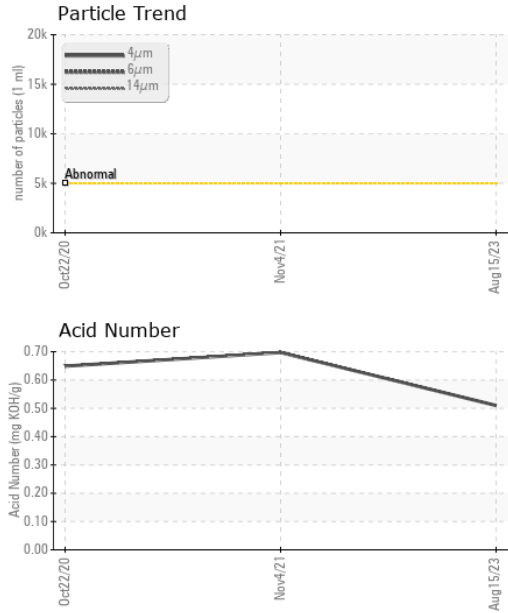
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>17018</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>1812</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>84</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>17</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>21/18/14</b>	---	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.51</b>	0.697	0.649

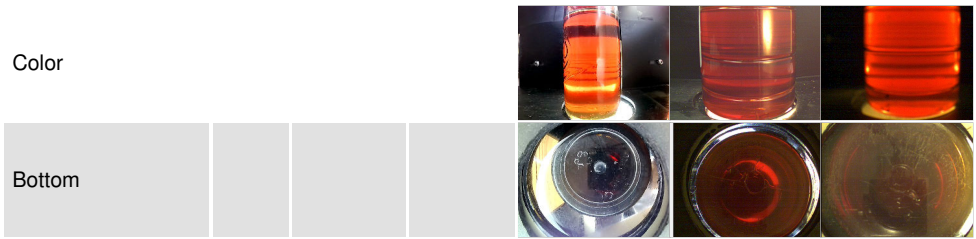
# OIL ANALYSIS REPORT



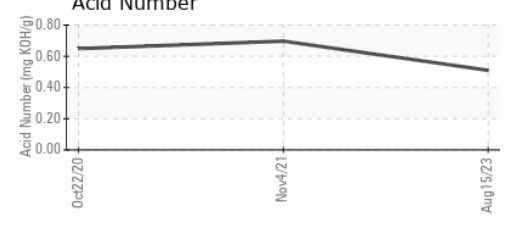
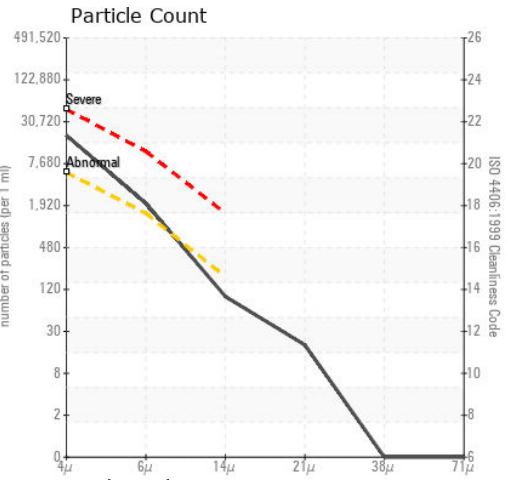
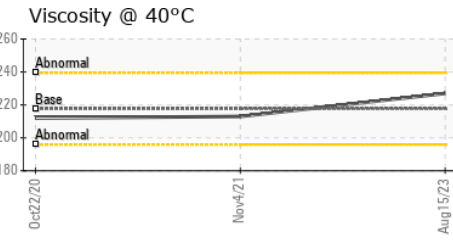
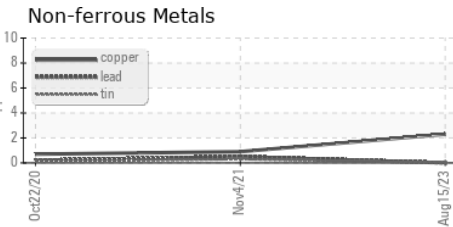
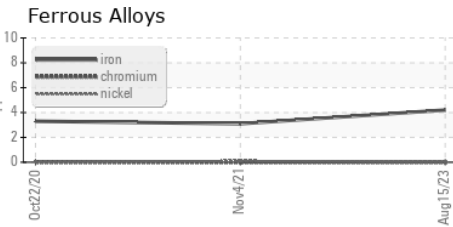
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	217.7	<b>227</b>	213	212

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0076292 **Received** : 22 Aug 2023  
**Lab Number** : 05931511 **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10616782 **Diagnostician** : Don Baldrige  
**Test Package** : PLANT

**ACHILLES USA INC**  
 1407 80TH STREET SW  
 EVERETT, WA  
 US 98203  
 Contact: TONY DEHLER  
 tdehler@achillesusa.com  
 T: (425)438-4681  
 F:

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)