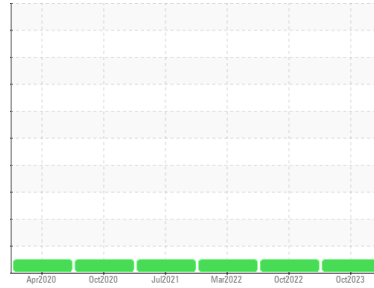




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**CD1372 - GOOSENECK GROUND CORN (S/N XA0631)**

Component

**Gearbox**

Fluid

**MOBIL SHC 630 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### 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	<b>USP0001762</b>	USP234698	USP230012
Sample Date	Client Info	<b>01 Oct 2023</b>	20 Oct 2022	14 Mar 2022
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>200	<b>0</b>	0	<1
Chromium ppm ASTM D5185m	>15	<b>0</b>	0	0
Nickel ppm ASTM D5185m	>15	<b>0</b>	0	0
Titanium ppm ASTM D5185m		<b>0</b>	0	0
Silver ppm ASTM D5185m		<b>0</b>	0	0
Aluminum ppm ASTM D5185m	>25	<b>&lt;1</b>	0	0
Lead ppm ASTM D5185m	>100	<b>0</b>	0	0
Copper ppm ASTM D5185m	>200	<b>0</b>	0	0
Tin ppm ASTM D5185m	>25	<b>0</b>	0	<1
Antimony ppm ASTM D5185m	>5	<b>---</b>	---	---
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>0</b>	0	0
Barium ppm ASTM D5185m		<b>0</b>	0	0
Molybdenum ppm ASTM D5185m		<b>0</b>	0	0
Manganese ppm ASTM D5185m		<b>0</b>	0	0
Magnesium ppm ASTM D5185m		<b>0</b>	0	0
Calcium ppm ASTM D5185m		<b>&lt;1</b>	0	0
Phosphorus ppm ASTM D5185m		<b>421</b>	391	362
Zinc ppm ASTM D5185m		<b>0</b>	<1	0
Sulfur ppm ASTM D5185m		<b>28</b>	33	28

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>38</b>	39	38
Sodium ppm ASTM D5185m		<b>0</b>	0	0
Potassium ppm ASTM D5185m	>20	<b>2</b>	0	0
Water % ASTM D6304	>0.2	<b>0.001</b>	0.004	0.003
ppm Water ppm ASTM D6304	>2000	<b>4.6</b>	45.8	29.0

## FLUID CLEANLINESS

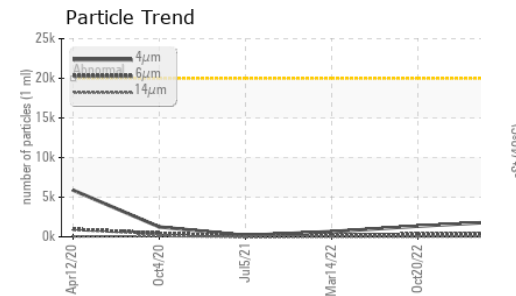
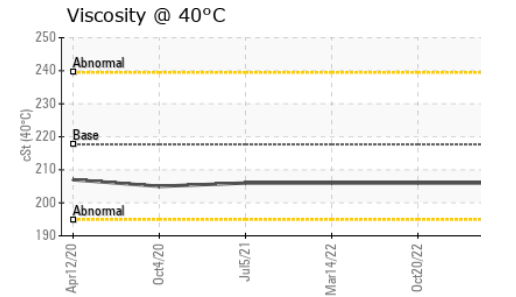
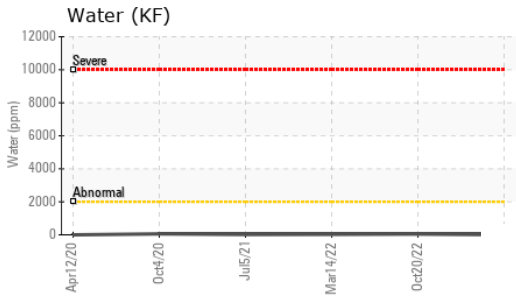
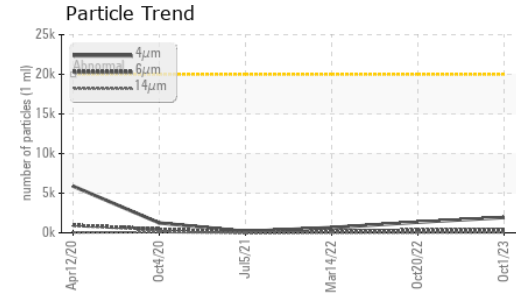
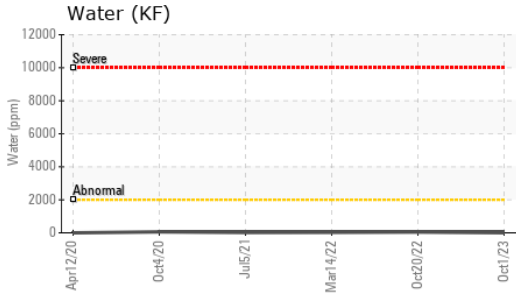
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	<b>1938</b>	1342	661
Particles >6µm ASTM D7647	>5000	<b>437</b>	322	185
Particles >14µm ASTM D7647	>640	<b>44</b>	26	17
Particles >21µm ASTM D7647	>160	<b>11</b>	5	4
Particles >38µm ASTM D7647	>40	<b>1</b>	1	0
Particles >71µm ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness ISO 4406 (c)	>21/19/16	<b>18/16/13</b>	18/16/12	17/15/11

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		<b>0.56</b>	0.64	0.61



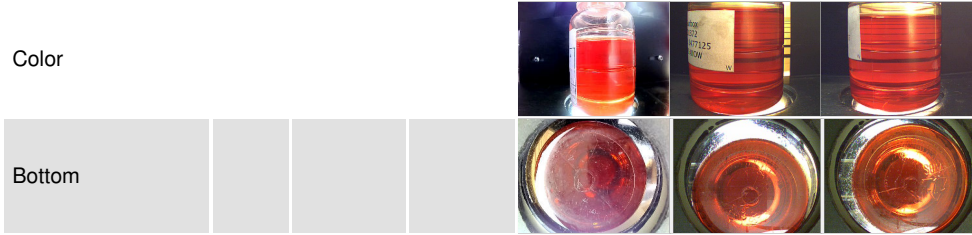
# OIL ANALYSIS REPORT



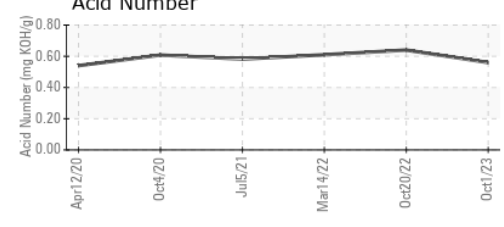
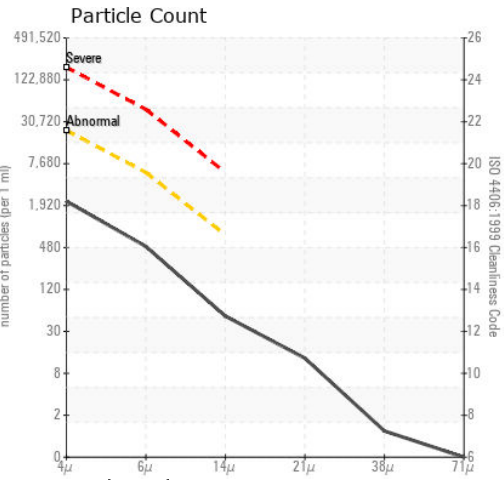
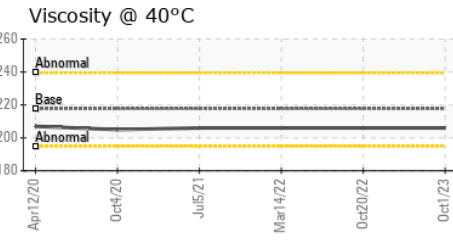
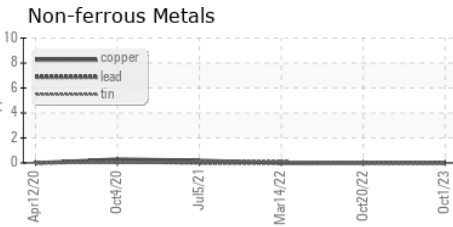
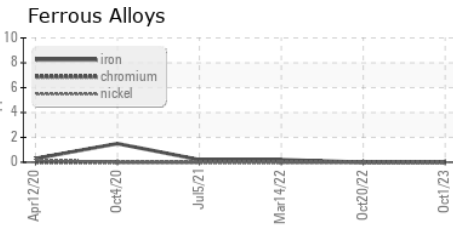
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	217.7	206	206

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0001762 **Received** : 02 Oct 2023  
**Lab Number** : 05966363 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10672914 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**POET BIO PROCESSING**  
 1277 102ND ST  
 FAIRBANK, IA  
 US 50662  
 Contact: JASON GOEDKEN  
 Jason.Goedken@POET.COM  
 T: (319)284-2621  
 F:

Certificate L2367  
 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)