

# **OIL ANALYSIS REPORT**

CHEESE DEPT **SL60AG21GB21** 

**Agitator Gearbox** 

**MOBIL SHC CIBUS 220 (2 GAL)** 

# Sample Rating Trend



# Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the

# **Fluid Condition**

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

Sample Date	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age   hrs   Client Info   0   0   0   0   0   0   0   0   0	Sample Number		Client Info		WC0927352	WC0814140	WC0734999
Oil Age	Sample Date		Client Info		12 Apr 2024	02 May 2023	19 Oct 2022
Colient Info	Machine Age	hrs	Client Info		0	0	0
Oil Changed   Client Info   N/A   N/A   N/A   N/A   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL	Oil Age	hrs	Client Info		0	0	0
Water	Oil Changed		Client Info		N/A	N/A	N/A
Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >150         67         76         37           Chromium         ppm         ASTM D5185m         >10         0         1         <1           Nickel         ppm         ASTM D5185m         >10         0         <1         <1           Silver         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         >20         0         <1         <1           Aluminum         ppm         ASTM D5185m         >50         0         <1         <1           Lead         ppm         ASTM D5185m         >50         0         <1         <1           Actad         ppm         ASTM D5185m         >50         0         <1         <1           Lead         ppm         ASTM D5185m         >50         0         <1         <1           Actad         ppm         ASTM D5185m         >50         0         <1         <1 <td>Sample Status</td> <td></td> <td></td> <td></td> <th>NORMAL</th> <td>NORMAL</td> <td>NORMAL</td>	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	CONTAMINATION		method	limit/base	current	history1	history2
Chromium	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>150	67	76	37
Titanium	Chromium	ppm	ASTM D5185m	>10	0	1	<1
Silver	Nickel	ppm		>10		<1	
Aluminum	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m		0	0	0
Copper         ppm         ASTM D5185m         >50         0         <1         <1           Tin         ppm         ASTM D5185m         >10         0         0         <1	Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Trin	Lead	ppm	ASTM D5185m	>100	0	0	0
Antimony	Copper	ppm	ASTM D5185m	>50		<1	<1
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         12         14         11           Barium         ppm         ASTM D5185m         0         0         <1           Molybdenum         ppm         ASTM D5185m         0         0         <1         <1           Molybdenum         ppm         ASTM D5185m         0         0         0         <1         <1           Magnesium         ppm         ASTM D5185m         0         0         0         0         0           Calcium         ppm         ASTM D5185m         0         3         1         1           Phosphorus         ppm         ASTM D5185m         318         306         304         304           Zinc         ppm         ASTM D5185m         28         23         21         21           Sulfur         ppm         ASTM D5185m         >50         1         2         2         2	Tin	ppm	ASTM D5185m	>10	0	0	<1
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         12         14         11           Barium         ppm         ASTM D5185m         0         0         <1           Molybdenum         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Calcium         ppm         ASTM D5185m         0         3         1         1           Phosphorus         ppm         ASTM D5185m         318         306         304         304           Zinc         ppm         ASTM D5185m         28         23         21         2012           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         1         2         2         2           Sodium <t< td=""><td>Antimony</td><td>ppm</td><td>ASTM D5185m</td><td>&gt;5</td><th></th><td></td><td></td></t<>	Antimony	ppm	ASTM D5185m	>5			
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         12         14         11           Barium         ppm         ASTM D5185m         0         0         <1	Vanadium	ppm	ASTM D5185m		0	0	0
Barium	Cadmium	ppm	ASTM D5185m		0	0	0
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         0         <1         <1           Magnesium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         3         1           Phosphorus         ppm         ASTM D5185m         318         306         304           Zinc         ppm         ASTM D5185m         28         23         21           Sulfur         ppm         ASTM D5185m         11896         11359         12012           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         >20         0         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         <1         <1         <1           VISUAL         method         limit/base         current         history1         history2           White Metal         <	Boron	ppm	ASTM D5185m		12		11
Manganese         ppm         ASTM D5185m         0         <1         <1           Magnesium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         3         1           Phosphorus         ppm         ASTM D5185m         318         306         304           Zinc         ppm         ASTM D5185m         28         23         21           Sulfur         ppm         ASTM D5185m         11896         11359         12012           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         >20         0         <1	Barium	ppm	ASTM D5185m		0	0	<1
Magnesium         ppm         ASTM D5185m         0         0         0           Calcium         ppm         ASTM D5185m         0         3         1           Phosphorus         ppm         ASTM D5185m         318         306         304           Zinc         ppm         ASTM D5185m         28         23         21           Sulfur         ppm         ASTM D5185m         11896         11359         12012           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         >20         0         <1	Molybdenum	ppm				0	0
Calcium         ppm         ASTM D5185m         0         3         1           Phosphorus         ppm         ASTM D5185m         318         306         304           Zinc         ppm         ASTM D5185m         28         23         21           Sulfur         ppm         ASTM D5185m         11896         11359         12012           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         >20         0         <1	-	ppm	ASTM D5185m		0		
Phosphorus         ppm         ASTM D5185m         318         306         304           Zinc         ppm         ASTM D5185m         28         23         21           Sulfur         ppm         ASTM D5185m         11896         11359         12012           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         >20         0         <1	Magnesium	ppm	ASTM D5185m				
Zinc         ppm         ASTM D5185m         28         23         21           Sulfur         ppm         ASTM D5185m         11896         11359         12012           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         >20         0         <1	Calcium	ppm	ASTM D5185m		•		1
Sulfur         ppm         ASTM D5185m         11896         11359         12012           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         >50         1         <1	Phosphorus	ppm			318	306	
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         <1	Zinc	ppm	ASTM D5185m		28	23	
Silicon         ppm         ASTM D5185m         >50         1         2         2           Sodium         ppm         ASTM D5185m         <1	Sulfur	ppm	ASTM D5185m		11896	11359	12012
Sodium         ppm         ASTM D5185m         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <b>0</b> <1 <1  VISUAL method limit/base current history1 history2  White Metal scalar *Visual NONE NONE NONE NONE  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 NONE NONE  Sand/Dirt scalar *Visual NONE NONE NONE NONE  NONE NONE NONE	Silicon	ppm	ASTM D5185m	>50	1	2	2
VISUAL method limit/base current history1 history2  White Metal scalar *Visual NONE NONE NONE NONE  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 NONE NONE  Sand/Dirt scalar *Visual NONE NONE NONE NONE  NONE NONE NONE	Sodium	ppm	ASTM D5185m		<1		
White Metal scalar *Visual NONE NONE NONE NONE 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 NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
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     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONE	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE		scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONE	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML NORML NORML NORML							
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE

NORML

>0.1

scalar \*Visual

scalar \*Visual

scalar

\*Visual

**NORML** 

NEG

NEG

NORML

Odor

**Emulsified Water** 

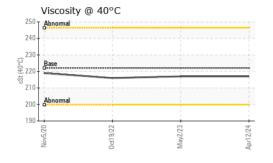
NORML

NEG

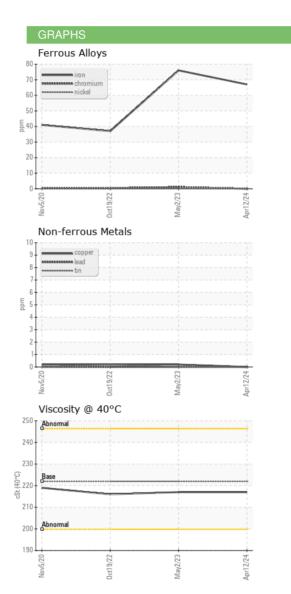
ed By HAICHAEL VILLASENOR



# **OIL ANALYSIS REPORT**



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	222	217	217	216
SAMPLE IMAG	BES	method	limit/base	current	history1	history2
Color					no image	
Bottom					no image	







Certificate 12367

Laboratory Sample No.

Lab Number : 06158638 Unique Number : 10994061

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0927352

Test Package : IND 1

Received

Diagnosed

Tested : 24 Apr 2024

: 25 Apr 2024 - Jonathan Hester

: 23 Apr 2024

1302 1ST AVE GREELEY, CO US 80631-5909

F: (970)347-5190

Contact: ERIC KLINE

EKLINE@LEPRINOFOODS.COM

**LEPRINO FOODS-GREELEY** 

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)