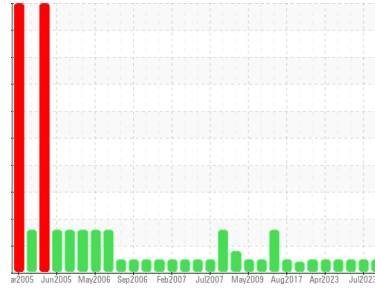




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[1796698]
 Machine Id
SW06 (S/N 1678 606)
 Component
Gearbox
 Fluid
SHELL OMALA 220 (2 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Particle count performed inadvertently. (Customer Sample Comment: Monthly oil change and sample with Shell Omala oil)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination 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		WC0807614	WC0834254	WC0807606
Sample Date	Client Info		18 Aug 2023	20 Jul 2023	27 Jun 2023
Machine Age	hrs	Client Info	3787	3173	2643
Oil Age	hrs	Client Info	2074	530	934
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	58	53	42
Chromium	ppm	ASTM D5185m >15	0	<1	0
Nickel	ppm	ASTM D5185m >15	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	<1	<1	<1
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	1	<1	2
Tin	ppm	ASTM D5185m >25	<1	<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 4.4	0	0	0
Barium	ppm	ASTM D5185m 0.0	0	<1	<1
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 0	<1	4	<1
Calcium	ppm	ASTM D5185m 0	3	2	1
Phosphorus	ppm	ASTM D5185m 215	214	211	155
Zinc	ppm	ASTM D5185m 0	2	7	4
Sulfur	ppm	ASTM D5185m 7039	11101	13850	16406

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	0	4	1
Sodium	ppm	ASTM D5185m	<1	1	<1
Potassium	ppm	ASTM D5185m >20	0	0	0

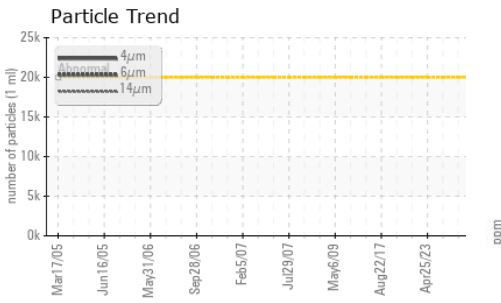
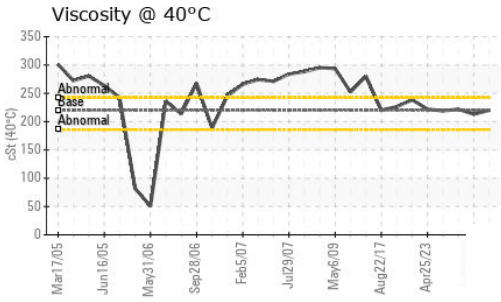
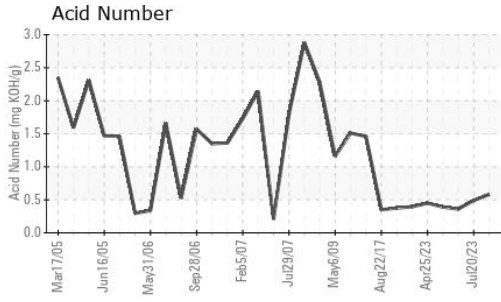
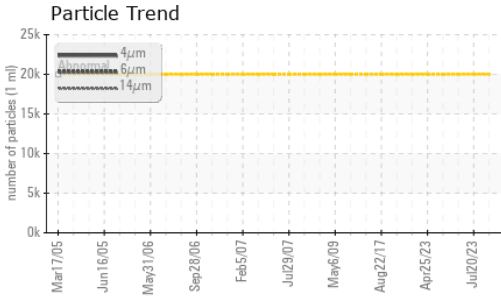
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	2559	---	---
Particles >6µm	ASTM D7647	>5000	667	---	---
Particles >14µm	ASTM D7647	>640	70	---	---
Particles >21µm	ASTM D7647	>160	20	---	---
Particles >38µm	ASTM D7647	>40	1	---	---
Particles >71µm	ASTM D7647	>10	0	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	19/17/13	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.58	0.49	0.36

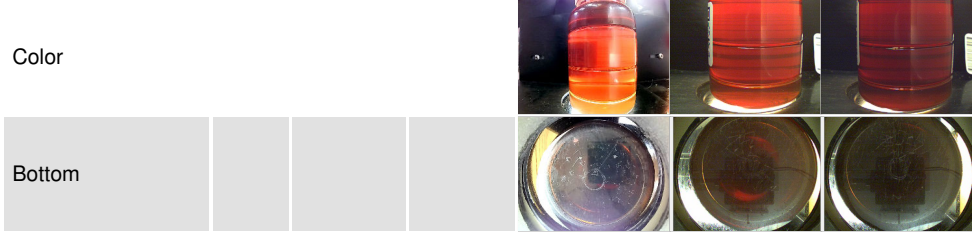
OIL ANALYSIS REPORT



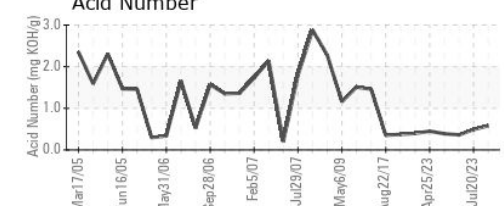
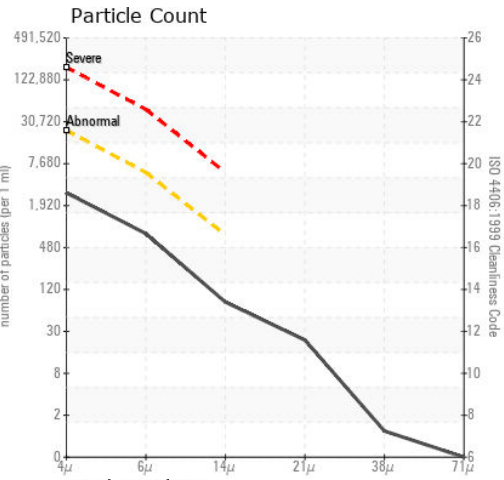
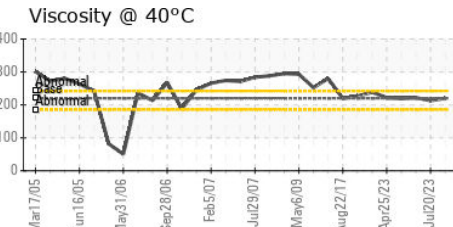
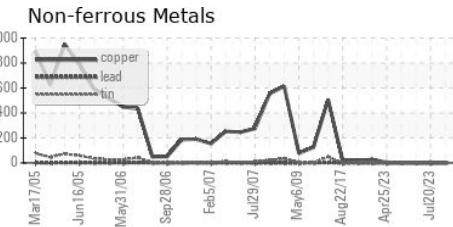
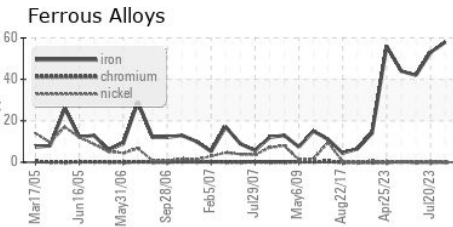
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	220	213	222

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0807614 **Received** : 30 Aug 2023
Lab Number : 05938825 **Diagnosed** : 31 Aug 2023
Unique Number : 10629437 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: PrtCount)

LEPRINO FOODS-FORT MORGAN
 2400 EAST BEAVER AVE
 FORT MORGAN, CO
 US 80701
 Contact: KEITH SCHULTE
 kschulte@leprinofoods.com
 T: (970)542-4247
 F: (970)542-4241

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)