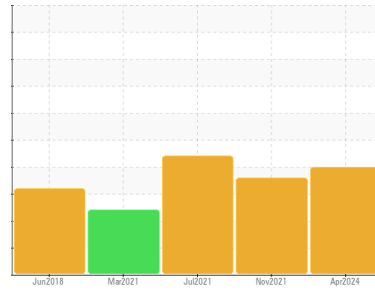




OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES



Machine Id

MCC 7 (S/N F35873U98030)

Component

Compressor

Fluid

INGERSOLL-RAND SSR ULTRA COOLANT (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand or type of oil. Confirmed. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP0006342	USP238598	USP220552
Sample Date	Client Info		09 Apr 2024	24 Nov 2021	06 Jul 2021
Machine Age	hrs	Client Info	61399	10159	10155
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	Not Changd	Changed
Sample Status			ABNORMAL	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	2	0	1
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m	<1	0	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	<1	0	<1
Aluminum	ppm	ASTM D5185m >25	<1	0	<1
Lead	ppm	ASTM D5185m >25	0	0	<1
Copper	ppm	ASTM D5185m >50	5	0	<1
Tin	ppm	ASTM D5185m >15	<1	0	1
Antimony	ppm	ASTM D5185m	---	0	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	0
Barium	ppm	ASTM D5185m 500	0	737	792
Molybdenum	ppm	ASTM D5185m 0	0	0	<1
Manganese	ppm	ASTM D5185m	1	0	0
Magnesium	ppm	ASTM D5185m 0	1	0	0
Calcium	ppm	ASTM D5185m 0	<1	0	5
Phosphorus	ppm	ASTM D5185m 20	309	0	9
Zinc	ppm	ASTM D5185m 0	25	0	8
Sulfur	ppm	ASTM D5185m 200	1229	0	324

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	2	0	<1
Sodium	ppm	ASTM D5185m	2	25	9
Potassium	ppm	ASTM D5185m >20	2	1	1
Water	%	ASTM D6304 >0.1	0.049	1.290	1.117
ppm Water	ppm	ASTM D6304 >1000	491	12900.1	11178.1

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	96653	48883	71292
Particles >6µm	ASTM D7647	>2500	44098	2409	6639
Particles >14µm	ASTM D7647	>320	6034	172	410
Particles >21µm	ASTM D7647	>80	1808	50	72
Particles >38µm	ASTM D7647	>20	92	2	4
Particles >71µm	ASTM D7647	>4	5	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	24/23/20	23/18/15	23/20/16

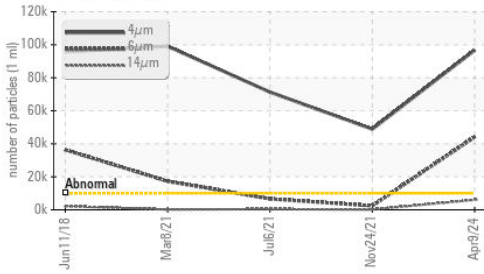
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.51	0.357	0.182

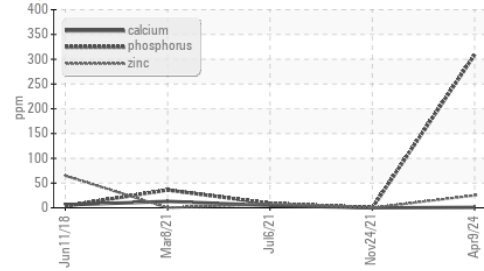


OIL ANALYSIS REPORT

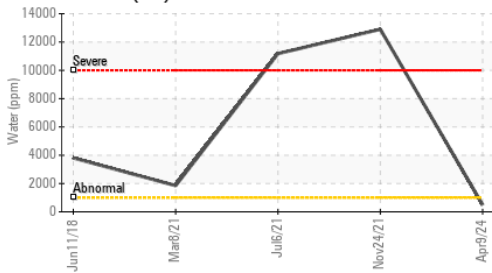
Particle Trend



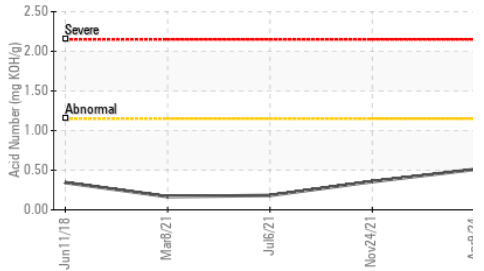
Additives



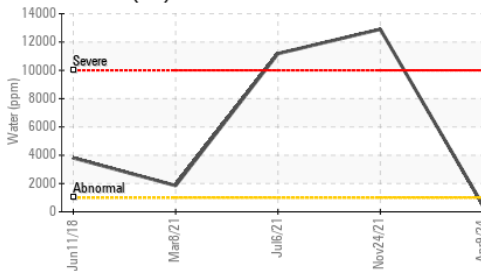
Water (KF)



Acid Number



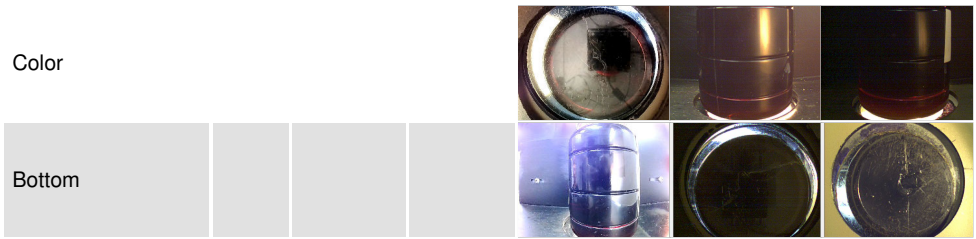
Water (KF)



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

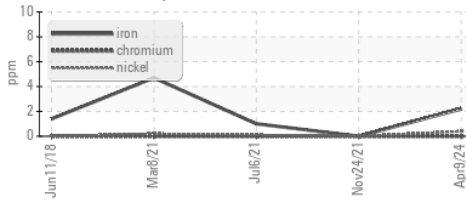
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.4	43.4	51.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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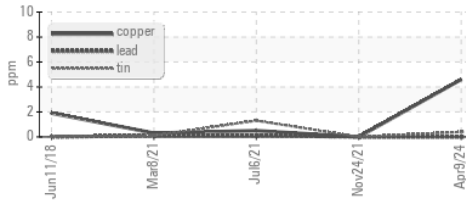


GRAPHS

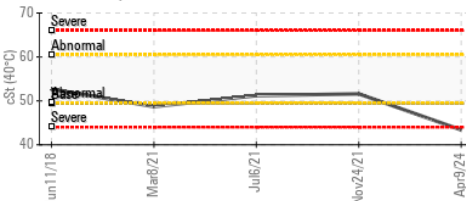
Ferrous Alloys



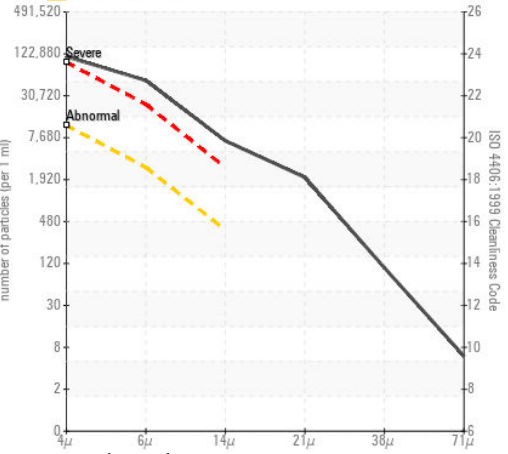
Non-ferrous Metals



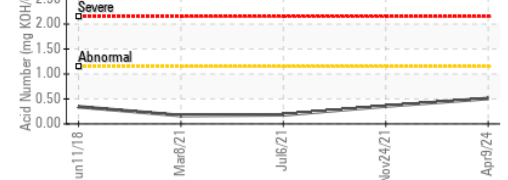
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0006342
Lab Number : 06150452
Unique Number : 10980530
Test Package : IND 2
Received : 16 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 17 Apr 2024 - Doug Bogart

FARMLAND FOODS INC - SMITHFIELD
 MONMOUTH, IL
 US
 Contact:

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)