

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### NORMAL

Machine Id

# FORMAX PATTY MACHINE

Component Hydraulic System Fluid HYDRAULIC OIL FG ISO 46 (--- 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 component. The amount and size of particulates present in the system is acceptable.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

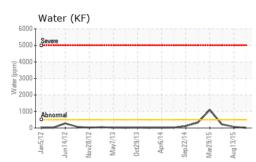
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP156659	USP154218	USP143298
Sample Date		Client Info		24 Nov 2015	13 Aug 2015	16 Jul 2015
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m		ں <1	<1	<1
Tin		ASTM D5185m	>20	<1	0	< 1
	ppm	ASTM D5185m	>20	<1	0	0
Antimony Vanadium	ppm			-		
	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	12	25
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	0	0	0
Calcium	ppm	ASTM D5185m	12	<1	0	0
Phosphorus	ppm	ASTM D5185m	400	462	498	414
Zinc	ppm	ASTM D5185m	12	2	0	0
Sulfur	ppm	ASTM D5185m	650	470	212	348
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	4	3
Sodium	ppm	ASTM D5185m		0	0	<1
						0
Potassium	ppm	ASTM D5185m	>20	5	0	0
Potassium Water	ppm %	ASTM D5185m ASTM D6304		5 0.001	0 0.007	0.022
Water						
Water	% ppm	ASTM D6304	>0.05	0.001	0.007	0.022 220
Water ppm Water FLUID CLEANLIN	% ppm	ASTM D6304 ASTM D6304	>0.05 >500	0.001 10	0.007 70	0.022 220
Water ppm Water FLUID CLEANLIN Particles >4µm	% ppm	ASTM D6304 ASTM D6304 method	>0.05 >500 limit/base >5000	0.001 10 current	0.007 70 history1	0.022 220 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647	>0.05 >500 limit/base >5000 >1300	0.001 10 current 113	0.007 70 history1 216	0.022 220 history2 113
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160	0.001 10 current 113 61	0.007 70 history1 216 117	0.022 220 history2 113 61
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160 >40	0.001 10 current 113 61 10	0.007 70 history1 216 117 20	0.022 220 history2 113 61 10
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160 >40 >10	0.001 10 current 113 61 10 3	0.007 70 history1 216 117 20 6	0.022 220 history2 113 61 10 3
Water ppm Water	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160 >40 >10	0.001 10 current 113 61 10 3 0	0.007 70 history1 216 117 20 6 1	0.022 220 history2 113 61 10 3 0
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	% ppm ESS	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 <b>limit/base</b> >5000 >1300 >160 >40 >10 >3	0.001 10 current 113 61 10 3 0 0 0	0.007 70 history1 216 117 20 6 1 1 0	0.022 220 history2 113 61 10 3 0 0

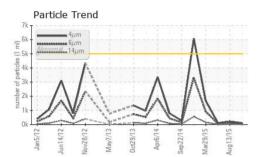
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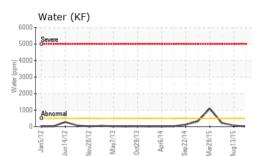
Contact/Location: CHARLIE WEAVER - CONMARMO

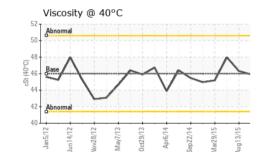


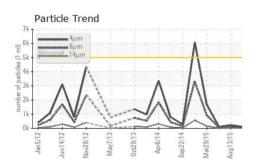
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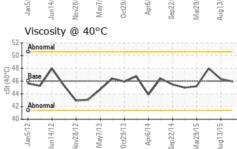


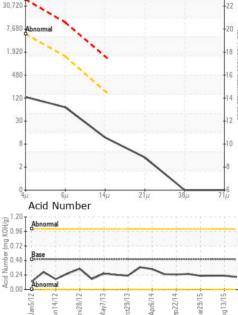






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	VLITE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	VLITE	VLITE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	0.1%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
∕isc@40°C	cSt	ASTM D445	46	45.92	46.31	47.98
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color				no image	no image	no image
				no image	no image	no image
Bottom					no image	
Bottom GRAPHS					no intage	
				Particle Coun		
GRAPHS			491,52	Particle Coun		T <sup>26</sup>
GRAPHS Ferrous Alloys			491,52	Particle Coun		T <sup>26</sup>
GRAPHS Ferrous Alloys			122,88	Particle Coun		-24
GRAPHS Ferrous Alloys			122,88	Particle Count		T <sup>26</sup>
GRAPHS Ferrous Alloys		*	122,88 30,72 7,68	Particle Coun		-24 -22
GRAPHS Ferrous Alloys	#29/13 2 42 42 42 42 42 42 42 42 42 42 42 42 4	22/14 \$	122,88 30,72 7,68	Particle Count Severe		-24 -22
GRAPHS Ferrous Alloys	Oct29/13	Sep22/14 Sep	122,88 30,72 7,68	Particle Count Severe		-24 -22
GRAPHS Ferrous Alloys	0	Sep22/14 Sep22/14 Sep22/14 Sep22/14 Sep22/14 Sep22/14 Sep22/14 Sep22/14 Sep22/14 Sep22/15 Sep	122,88 30,72 7,68	Particle Count Severe		-24 -22
GRAPHS Ferrous Alloys	0	Sep22/14 >>	122,88 30,72 7,68	Particle Count Severe		-24 -22
GRAPHS Ferrous Alloys	0	Sep22/14 \$	122.88 30.72 7.68 (IL Lad) 1.92 Septed 10 and 12	Particle Count Severe		-24 -24 -22 -20 -18 -16 -14
GRAPHS Ferrous Alloys	0	Sep 22/14 5	122.88 30.72 7.68 (IL Lad) 1.92 Septed 10 and 12	Particle Count Severe		-24 -22 -20
GRAPHS Ferrous Alloys	0	Sep22/14 5	122.88 30,72 7,68 1.92 5U(E)Day 48 500 tag 1.92 48 1.92 48 1.92 3	Particle Count Severe		-24 -24 -22 -20 -18 -16 -14





Oct29/13

ep22/14 Aar29/15

nr6/1

Mav7/13



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **CONAGRA FROZEN FOODS** : 24 Nov 2015 200 N BANQUET DR Sample No. : USP156659 Received Lab Number : 03870738 Tested : 29 Nov 2015 Unique Number : 7215974 Diagnosed : 29 Nov 2015 - Jonathan Hester Test Package : IND 2 Contact: CHARLIE WEAVER Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. charles.weaver@conagrafoods.com \* - 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)

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