

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.

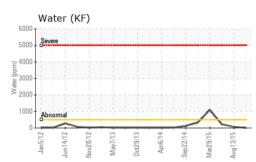
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP156659	USP154218	USP143298
Sample Date		Client Info		24 Nov 2015	13 Aug 2015	16 Jul 2015
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				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 limit/base >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

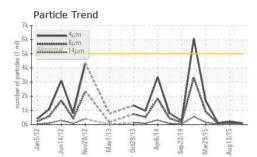
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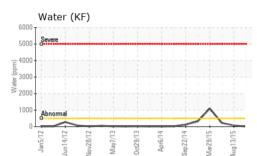
Contact/Location: CHARLIE WEAVER - CONMARMO

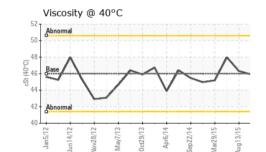


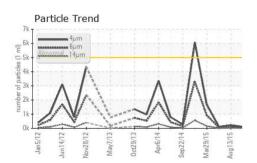
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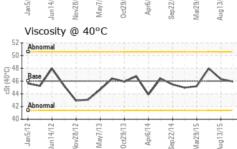


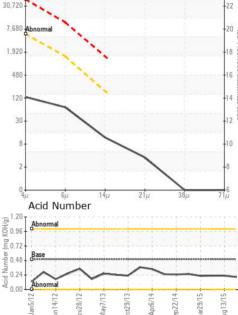






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	VLITE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	VLITE	VLITE	LIGHT
Sand/Dirt	scalar	*Visual	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 ²⁶
GRAPHS Ferrous Alloys			491,52	Particle Coun		T ²⁶
GRAPHS Ferrous Alloys			122,88	Particle Coun		-24
GRAPHS Ferrous Alloys			122,88	Particle Count		T ²⁶
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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Contact/Location: CHARLIE WEAVER - CONMARMO

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MARSHALL, MO

T: (660)236-6009

F: (660)886-3871

US 65340

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