

OIL ANALYSIS REPORT

NORMAL

Machine Id

FES CARCOL 11 (S/N 16S109MS)

Component Refrigeration Compressor

Fluic USPI ALT-68 SC (--- GAL)

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 oil. The amount and size of particulates present in the system are acceptable.

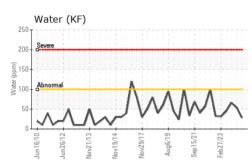
Fluid Condition

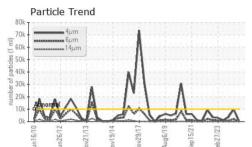
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

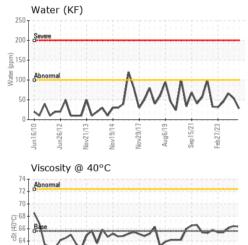
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012838	USP0005501	USP0001715
Sample Date		Client Info		29 May 2024	03 Feb 2024	02 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	<1	0	0
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m	>4	۲ <1	<1	0
Vanadium	ppm	ASTM D5185m	~ 1	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m		<1	0	0
Zinc	ppm	ASTM D5185m		0	0	<1
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water	%	ASTM D6304	>0.01	0.003	0.005	0.006
ppm Water	ppm	ASTM D6304	>100	28	54	66.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	650	9892	3603
Particles >6µm		ASTM D7647	>2500	131	1997	713
Particles >14µm		ASTM D7647	>320	11	53	16
Particles >21µm		ASTM D7647	>80	2	9	5
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/14/11	20/18/13	19/17/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.014	0.013

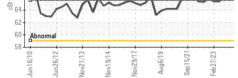


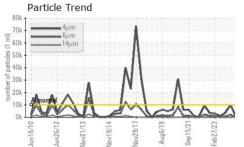
OIL ANALYSIS REPORT











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	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	66.3	66.4	66.1
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				Real Provide Action of the second sec		
Bottom						

GRAPHS Ferrous Alloys Particle Count 10 491 520 122,88 30.72 20 28 en 15/2 EC/LC/Ha 4406 Jun 16/ lov21 per 1,920 1999 Cle cles Non-ferrous Metals 480 16 10 120 14 12 Code 30 8 en15/2 -h77/73 1/60 un16/ <u>___</u> Viscosity @ 40°C Acid Number 75 (B/H03) Ab 70 ₽0.02 65 0.0 Abno Ba Pi 0.00 55 Sep15/21 eb27/23 Sep 15/21 un26/12 01/13 eh77/73 w21/13 1166 1028/1 Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **CARGILL FOODS-COLUMBUS** : USP0012838 Sample No. Received : 29 May 2024 Lab Number : 06194018 Tested : 30 May 2024 COLUMBUS, NE

: 31 May 2024 - Doug Bogart

Diagnosed

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



Certificate 12367

Unique Number : 11056141

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.

Test Package : IND 2

Contact/Location: - CARCOLNE Page 2 of 2

US 68601

Contact:

T:

F: