

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

C-33-34 (S/N 2512688)

Refrigeration Compressor

Fluid

USPI 1009-68 SC (--- 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.

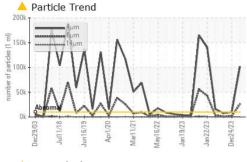
Fluid Condition

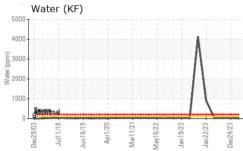
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

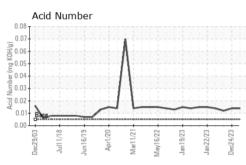
nc2003 3u2018 3un2219 Aud2020 Minz021 May2022 Jan2023 3un2023 Dec2023									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		USP0007915	USP0004335	USP0000365			
Sample Date		Client Info		01 Apr 2024	24 Dec 2023	29 Aug 2023			
Machine Age	hrs	Client Info		0	0	0			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				ABNORMAL	NORMAL	NORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>8	<1	0	1			
Chromium	ppm	ASTM D5185m	>2	0	0	0			
Nickel	ppm	ASTM D5185m		0	0	0			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>3	<1	0	0			
Lead	ppm	ASTM D5185m	>2	0	0	0			
Copper	ppm	ASTM D5185m	>8	0	0	0			
Tin	ppm	ASTM D5185m	>4	<1	0	0			
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		0	0	0			
Barium	ppm	ASTM D5185m		0	0	0			
Molybdenum	ppm	ASTM D5185m		0	0	0			
Manganese	ppm	ASTM D5185m		0	0	0			
Magnesium	ppm	ASTM D5185m		<1	0	0			
Calcium	ppm	ASTM D5185m		0	<1	0			
Phosphorus	ppm	ASTM D5185m		0	<1	0			
Zinc	ppm	ASTM D5185m		0	0	0			
Sulfur	ppm	ASTM D5185m	50	11	0	0			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>15	1	<1	2			
Sodium	ppm	ASTM D5185m		<1	0	0			
Potassium	ppm	ASTM D5185m	>20	<1	0	<1			
Water	%	ASTM D6304	>0.01	0.001	0.002	0.003			
ppm Water	ppm	ASTM D6304	>100	6	20	27.4			
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>10000	102096	9845	7202			
Particles >6µm		ASTM D7647	>2500	^ 26059	1468	1045			
Particles >14μm		ASTM D7647	>320	4 371	37	45			
Particles >21µm		ASTM D7647	>80	32	5	14			
Particles >38µm		ASTM D7647	>20	1	0	1			
Particles >71µm		ASTM D7647	>4	0	0	0			
Oil Cleanliness		ISO 4406 (c)	>20/18/15	24/22/16	20/18/12	20/17/13			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.012			

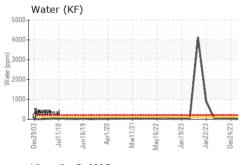


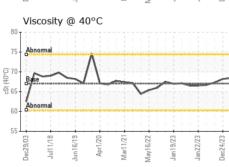
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
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	67	68.4	68.2	67.3

SAMPLE IMAGES

method

limit/base

current

history1

history2



Bottom

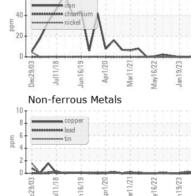
GRAPHS Ferrous Alloys

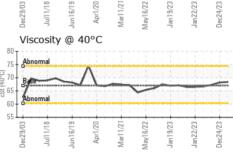
Color

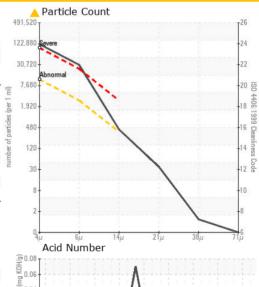
















Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: USP0007915 Lab Number : 06140677 Unique Number : 10965485

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Apr 2024 **Tested**

Diagnosed

: 08 Apr 2024 : 08 Apr 2024 - Doug Bogart

0.04

0.00 Acid

CINCINNATI, OH US 45246 Contact: Russell Schutte

9990 PRINCETON RD.

russ.schutte@pierrefoods.com

T: (800)543-1604

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) F: (513)874-7180

Contact/Location: Russell Schutte - PIECIN

TYSCIN