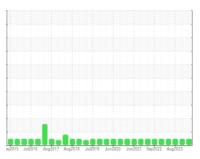


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



HT-1 (S/N 10310)
Component
Refrigeration Compressor

USPI 1009-68 SC (--- 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 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.

11/2015 Jul2016 Augl2017 Augl2016 Jul2019 Junl2020 Junl2021 Supt2022 Augl2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006573	USP0004190	USP0000323
Sample Date		Client Info		23 Apr 2024	13 Dec 2023	31 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	<1	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<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		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.01	0.004	0.001	0.001
ppm Water	ppm	ASTM D6304	>100	43	12	3.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	4647	2357	2941
Particles >6µm		ASTM D7647	>2500	1217	416	666
Particles >14µm		ASTM D7647	>320	70	11	25
Particles >21µm		ASTM D7647	>80	16	3	6
Particles >38μm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/13	18/16/11	19/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A sist Niversia sur (ANI)	I/OLI/-	A CTM DOZA	0.005	0.014	0.015	0.014

Acid Number (AN)

0.015

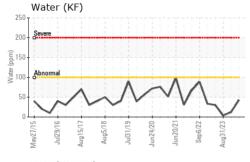
0.014

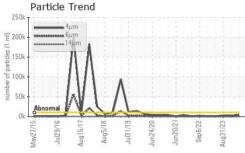
mg KOH/g ASTM D974 0.005

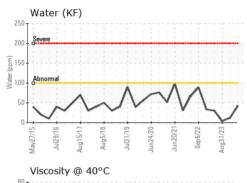
0.014

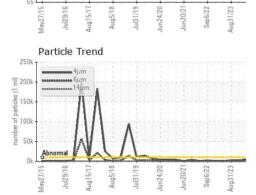


OIL ANALYSIS REPORT





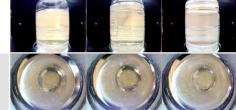




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
ELLIN DRODERT	mothod	limit/baco	current	history1	history?	

FLUID PROPER	THES	method	ilmit/base		nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	67	70.1	69.9	70.3

method



GRAPHS		
Ferrous Alloys	Particle Count	
40	491,520	6
30 - Iron Chromium	122,880 Severe -24	4
10-	30,72027 Abnormal	.2
	•	OSI O
May27/15 Jul29/16 Aug15/17 Aug5/18 Jun24/20 Jun20/21 Sep6/22 Aug31/23	1.920 18 1.920 18 19	ISO 4406:1999 Cleanliness Code
Non-ferrous Metals	16 480 - 16	99 Cle
8 copper	120	anliness 4
6 4	30-	2 Code
2	8-	0
May27/15 Jul29/16 Aug15/17 Aug5/18 Jun24/20 Jun20/21 Sep6/22	2-	
2	04μ 6μ 14μ 21μ 38μ 71μ	
Viscosity @ 40°C	Acid Number	
75 Abnormal	90.02	
270 2 65 8 65	0.002 Pase 0.00 Pase 0.001	
	0.01 Base	
55	20.00	
May27/15 Jul29/16 Aug15/17 Aug5/18 Jun24/20 Jun20/21 Sep6/22 Aug31/23	May27/15 Jul29/16 Aug15/17 Aug15/17 Jun24/20 Jun20/21 Sep6/22	
Mayî Julî Aug1 Jun2 Jun2 Sep	Mayî Juliz Augî Juniz Sep	





Certificate 12367

Laboratory Sample No.

Lab Number : 06159182

Test Package : IND 2

: USP0006573 Unique Number : 10994605

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Apr 2024

Tested : 25 Apr 2024 Diagnosed : 26 Apr 2024 - Jonathan Hester

SMITHFIELD FARMLAND - MARTIN CITY

13825 WYANDOTTE ST KANSAS CITY, MO

US 64145 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)

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F: