

OIL ANALYSIS REPORT

SAMPLE INFORM

Sample Rating Trend



2146-C-1 N FES 700 (S/N AB10744V)

Refrigeration Compressor

USPI 1009-68 SC (130 GAL)

Recommendation

Resample at the next service interval to monitor.

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

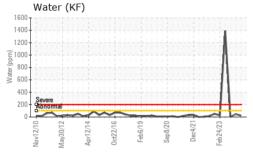
The TAN level is acceptable for this fluid. The condition of the oil is suitable for further service. Viscosity confirmed.

MATION	method			
	v2010 May2012	Apr2014 Oct2016	Feb2019 Sep2020	Dec2021 Feb2023

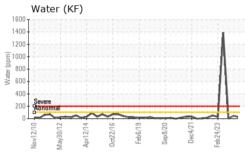
OAIMI LL IIVI OTII	717 (1101)	method	IIIIIIIIIIII	Current	Thistory	HISTOTYZ
Sample Number		Client Info		USP0006154	USP0005008	USP0002038
Sample Date		Client Info		13 Mar 2024	09 Dec 2023	06 Sep 2023
Machine Age	hrs	Client Info		0	0	10751
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
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	<1
Magnesium	ppm	ASTM D5185m		0	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	<1	<1	1
Sodium	ppm	ASTM D5185m		0	0	1
Potassium	ppm	ASTM D5185m	>20	0	<1	3
Water	%	ASTM D6304	>0.01	0.002	0.004	0.001
ppm Water	ppm	ASTM D6304	>100	22	47	0.00
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	2328	9060	3429
Dautialaa Cous		ASTM D7647	>2500	300	2625	364
Particles >6µm						
Particles >6µm Particles >14µm		ASTM D7647	>320	13	74	13
•			>320			13 3
Particles >14μm		ASTM D7647	>320	13	74	
Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647	>320 >80 >20	13 3	74 7	3
Particles >14µm Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647 ASTM D7647	>320 >80 >20	13 3 0	74 7 0	3
Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ATION	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>320 >80 >20 >4	13 3 0	74 7 0	3 0 0

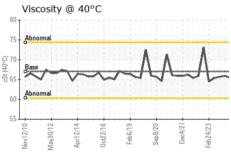


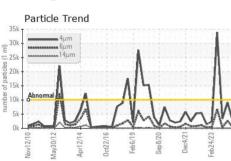
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35k 30k	4µ	m m					
25k -	1	µm]		. \			- A
5 15k - Abn	ormal 3	A	,	A.	1.		
E 10k + 0	11						
5k	May30/12	Apri 2/14	0ct22/16	Feb6/19 1	3ch 8/20	<u>~</u>	7VV







VISUAL		method				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

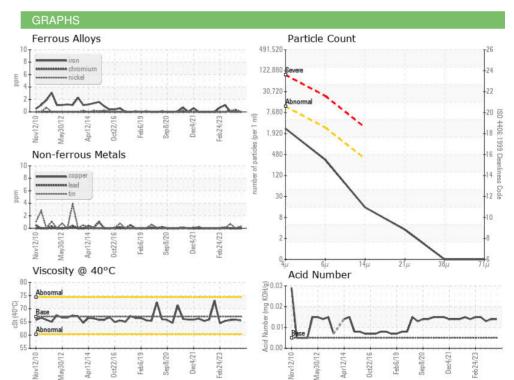
FLUID PROPER	THES	method	ilmit/base		nistory i	nistoryz
Visc @ 40°C	cSt	ASTM D445	67	65.5	65.9	65.7

SAMPLE IMAGES	method	limit/base	current	history1	history2

Color











Report Id: FARDEN [WUSCAR] 06123716 (Generated: 03/25/2024 11:00:27) Rev: 1

Laboratory Sample No. Lab Number : 06123716

: USP0006154

Unique Number : 10937867

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 : 25 Mar 2024 **Tested**

: 25 Mar 2024 - Jonathan Hester Diagnosed

SMITHFIELD - DENISON - SMIDENIOW

800 INDUSTRIAL ROAD

DENISON, IA US 51442

T: (712)263-7414

Contact: SERVICE MANAGER

Test Package : IND 2 Certificate L2367 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: (712)263-7314