OIL ANALYSIS REPORT

Sample Rating Trend

Mar2006 Jun2017 Jan2018 Mar2019 Jun2020 Jul2022 Oct2023
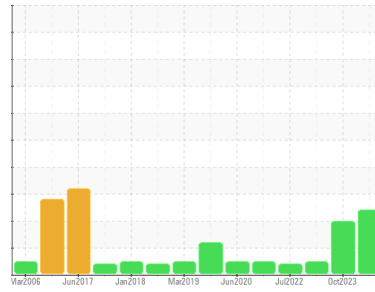
ISO

Machine Id
INGERSOLL RAND SEAGUY AC-6 (S/N CK2530U99326)
Component
Air Compressor
Fluid
USPI AIR 46 (--- 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.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		**USPM37558**	USPM26931	USPM24422
Sample Date	Client Info		**02 Jun 2024**	19 Oct 2023	30 Nov 2022
Machine Age	hrs	Client Info	**41821**	0	0
Oil Age	hrs	Client Info	**0**	0	0
Oil Changed		Client Info	**N/A**	N/A	N/A
Sample Status			**ABNORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	0	0
Chromium	ppm	ASTM D5185m	>4	**0**	0	0
Nickel	ppm	ASTM D5185m	>4	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**<1**	<1	<1
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>40	**0**	<1	0
Tin	ppm	ASTM D5185m	>5	**<1**	0	<1
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	0
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m	0	**0**	0	<1
Calcium	ppm	ASTM D5185m	0	**<1**	0	0
Phosphorus	ppm	ASTM D5185m	1	**5**	11	12
Zinc	ppm	ASTM D5185m	0	**7**	0	0
Sulfur	ppm	ASTM D5185m	0	**4**	0	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	0	<1
Sodium	ppm	ASTM D5185m		**<1**	0	0
Potassium	ppm	ASTM D5185m	>20	**2**	2	0
Water	%	ASTM D6304	>0.2	**0.052**	0.063	0.040
ppm Water	ppm	ASTM D6304	>2000	**528**	637.4	401.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	⚠ **59106**	⚠ 38132	865
Particles >6µm		ASTM D7647	>2500	⚠ **24555**	⚠ 12554	114
Particles >14µm		ASTM D7647	>320	⚠ **2853**	⚠ 861	9
Particles >21µm		ASTM D7647	>80	⚠ **977**	⚠ 200	3
Particles >38µm		ASTM D7647	>20	⚠ **67**	7	0
Particles >71µm		ASTM D7647	>4	**4**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	⚠ **23/22/19**	⚠ 22/21/17	17/14/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	**0.093**	0.093	0.24

OIL ANALYSIS REPORT

Particle Trend

120k
100k
80k
60k
40k
20k
0k
number of particles (1 ml)
4μm
6μm
14μm
Abnormal
Mar7/06
Jun11/17
Jan29/18
Mar13/19
Jun8/20
Jul4/22
Oct19/23

Water (KF)

2500
2000
1500
1000
500
0
Water (ppm)
Abnormal
Severe
Mar5/17
Oct10/17
Jun4/18
Nov7/19
Aug17/21
Nov30/22
Jun2/24

Acid Number

0.30
0.24
0.18
0.12
0.06
0.00
Acid Number (mg KOH/g)
Base
Mar7/06
Jun11/17
Jan29/18
Mar13/19
Jun8/20
Jul4/22
Oct19/23

Water (KF)

2500
2000
1500
1000
500
0
Water (ppm)
Abnormal
Severe
Mar5/17
Oct10/17
Jun4/18
Nov7/19
Aug17/21
Nov30/22

Viscosity @ 40°C

58
56
54
52
50
48
46
44
42
cSt (40°C)
Abnormal
Base
Abnormal
Mar7/06
Jun11/17
Jan29/18
Mar13/19
Jun8/20
Jul4/22
Oct19/23

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	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.7	**45.8**	48.2	54.5

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS

Ferrous Alloys

10
8
6
4
2
0
ppm
iron
chromium
nickel
Mar7/06
Jun11/17
Jan29/18
Mar13/19
Jun8/20
Jul4/22
Oct19/23

Non-ferrous Metals

10
8
6
4
2
0
ppm
copper
lead
tin
Mar7/06
Jun11/17
Jan29/18
Mar13/19
Jun8/20
Jul4/22
Oct19/23

Viscosity @ 40°C

60
55
50
45
40
cSt (40°C)
Abnormal
Base
Abnormal
Mar7/06
Jun11/17
Jan29/18
Mar13/19
Jun8/20
Jul4/22
Oct19/23

Particle Count

491,520
122,880
30,720
7,680
1,920
480
120
30
8
2
0
number of particles (per 1 ml)
Severe
Abnormal
26
24
22
20
18
16
14
12
10
8
6
ISO 4406:1999 Cleanliness Code
4μ
6μ
14μ
21μ
38μ
71μ

Acid Number

0.30
0.24
0.18
0.12
0.06
0.00
Acid Number (mg KOH/g)
Base
Mar7/06
Jun11/17
Jan29/18
Mar13/19
Jun8/20
Jul4/22
Oct19/23

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM37558
Lab Number : 06204674
Unique Number : 11072135
Test Package : IND 2

Received : 10 Jun 2024
Tested : 12 Jun 2024
Diagnosed : 12 Jun 2024 - Doug Bogart

SEABOARD FOODS
2700 ne 28th street
GUYMON, OK
US 73942
Contact: SERGIO CARLOS

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)

T: (580)338-9613
F: