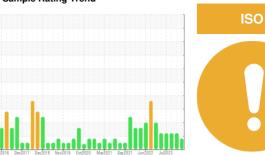


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **SMALL GD (S/N CBV702812)**

Component Compressor

**USPI AIR 46 (--- GAL)** 

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

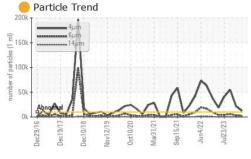
### **Fluid Condition**

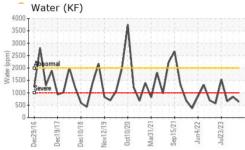
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

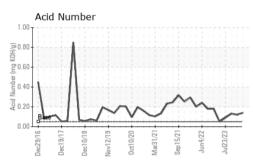
	c2016 Dec2017 Dec2016 Nov2019 Oct2020 Mm2021 Sep2021 Junt2022 Jul2023								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		USPM36632	USPM24193	USPM31054			
Sample Date		Client Info		27 Mar 2024	02 Jan 2024	10 Oct 2023			
Machine Age	hrs	Client Info		0	0	0			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				ATTENTION	ABNORMAL	ABNORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>50	0	0	0			
Chromium	ppm	ASTM D5185m	>10	0	0	0			
Nickel	ppm	ASTM D5185m		0	0	0			
Titanium	ppm	ASTM D5185m		<1	0	0			
Silver	ppm	ASTM D5185m		0	0	0			
Aluminum	ppm	ASTM D5185m	>25	<1	<1	2			
Lead	ppm	ASTM D5185m	>25	0	0	<1			
Copper	ppm	ASTM D5185m	>50	0	<1	<1			
Tin	ppm	ASTM D5185m	>15	<1	0	<1			
Vanadium	ppm	ASTM D5185m		0	<1	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		0	0	<1			
Magnesium	ppm	ASTM D5185m	0	0	0	0			
Calcium	ppm	ASTM D5185m	0	0	0	2			
Phosphorus	ppm	ASTM D5185m	1	0	0	<1			
Zinc	ppm	ASTM D5185m	0	0	0	0			
Sulfur	ppm	ASTM D5185m	0	0	0	23			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	0	0	<1			
Sodium	ppm	ASTM D5185m		0	<1	<1			
Potassium	ppm	ASTM D5185m	>20	<1	0	<1			
Water	%	ASTM D6304	>0.2	0.063	0.083	0.065			
ppm Water	ppm	ASTM D6304	>2000	631	832	656.0			
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>10000	12438	<u> </u>	<u></u> 54867			
Particles >6µm		ASTM D7647	>2500	2219	3012	<u></u> 5835			
Particles >14µm		ASTM D7647	>320	144	79	252			
Particles >21µm		ASTM D7647	>80	42	19	75			
Particles >38µm		ASTM D7647	>20	3	1	5			
Particles >71µm		ASTM D7647	>4	0	0	0			
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>21/18/14</b>	<u>^</u> 22/19/13	<u>△</u> 23/20/15			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.14	0.12	0.13			

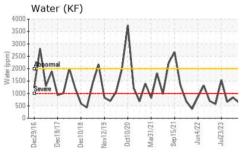


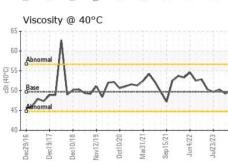
## **OIL ANALYSIS REPORT**











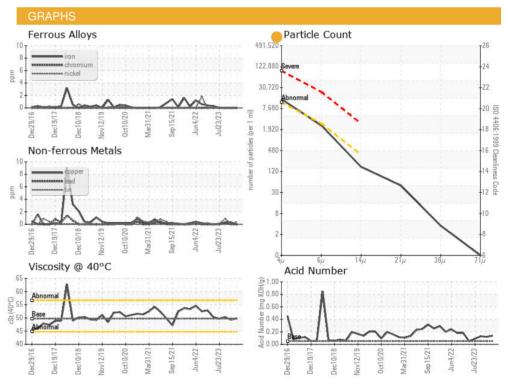
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
TEOID THOTEIT	ILO	method	IIIIII Dasc	Carrent	Thistory	riistoryz
Visc @ 40°C	cSt	ASTM D445	49.7	49.8	49.3	50.3

SAMPLE IMAGES

Color

**Bottom** 









Certificate 12367

Laboratory Sample No.

Lab Number : 06139912

Test Package : IND 2

: USPM36632 Unique Number : 10964720

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Apr 2024 **Tested** : 08 Apr 2024

Diagnosed : 08 Apr 2024 - Doug Bogart

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)

US 65018

**CARGILL-CALIFORNIA** 

1001 E. SMITH STREET

Contact: REFRIGERATION DEPT.

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