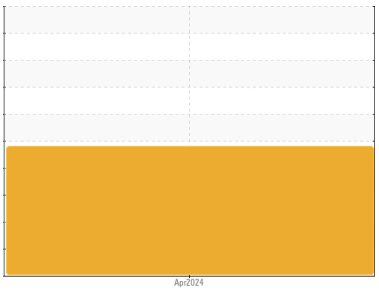
PROBLEM SUMMARY

Sample Rating Trend



DEGRADATION

Machine Id
CPAR0018 (S/N API586128)
Component
Compressor
Fluid
ISEL SERIES 2015-46 (5 GAL)

COMPONENT CONDITION SUMMARY

Acid Number

Particle Trend

RECOMMENDATION

We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **3.53**	---	---

Customer Id: SMISIO
Sample No.: DFP0000106
Lab Number: 06139879
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

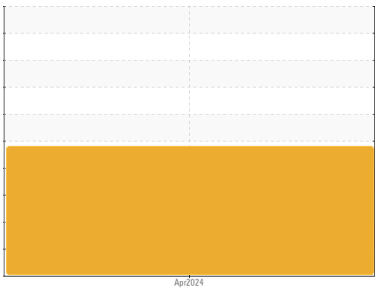
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check For Overheating	---	---	?	We advise that you check for a possible overheat condition.

HISTORICAL DIAGNOSIS

COMPRESSED AIR TECHNOLOGY

OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
CPAR0018 (S/N API586128)
Component
Compressor
Fluid
ISEL SERIES 2015-46 (5 GAL)

DIAGNOSIS

Recommendation
We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of particulates present in the oil.

Fluid Condition
The AN level is above the recommended limit. TAN level indicates possible presence of varnish.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**DFP0000106**	---	---
Sample Date		Client Info		**02 Apr 2024**	---	---
Machine Age	hrs	Client Info		**8425**	---	---
Oil Age	hrs	Client Info		**1000**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**SEVERE**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**1**	---	---
Chromium	ppm	ASTM D5185m	>5	**0**	---	---
Nickel	ppm	ASTM D5185m		**<1**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>15	**<1**	---	---
Lead	ppm	ASTM D5185m	>65	**2**	---	---
Copper	ppm	ASTM D5185m	>65	**11**	---	---
Tin	ppm	ASTM D5185m	>10	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**0**	---	---
Manganese	ppm	ASTM D5185m		**0**	---	---
Magnesium	ppm	ASTM D5185m		**1**	---	---
Calcium	ppm	ASTM D5185m		**0**	---	---
Phosphorus	ppm	ASTM D5185m		**194**	---	---
Zinc	ppm	ASTM D5185m		**419**	---	---
Sulfur	ppm	ASTM D5185m		**0**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	**0**	---	---
Sodium	ppm	ASTM D5185m		**10**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---

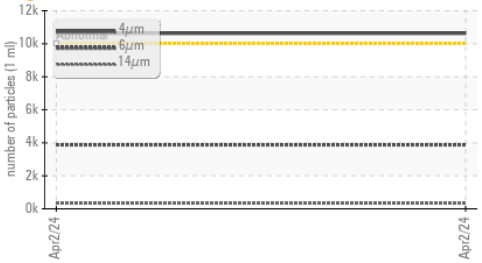
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**10632**	---	---
Particles >6µm		ASTM D7647	>2500	**3879**	---	---
Particles >14µm		ASTM D7647	>320	**325**	---	---
Particles >21µm		ASTM D7647	>80	**69**	---	---
Particles >38µm		ASTM D7647	>20	**2**	---	---
Particles >71µm		ASTM D7647	>4	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**21/19/16**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**3.53**	---	---

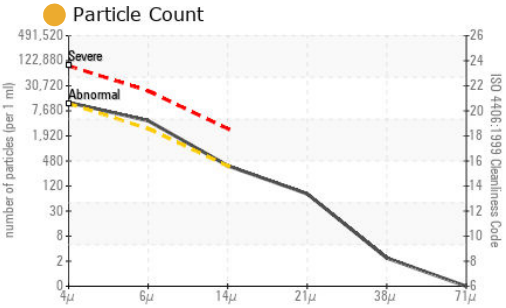
OIL ANALYSIS REPORT

COMPRESSED AIR TECHNOLOGY

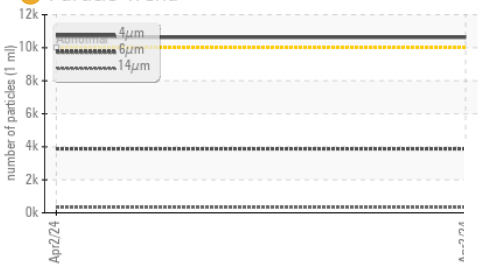
Particle Trend



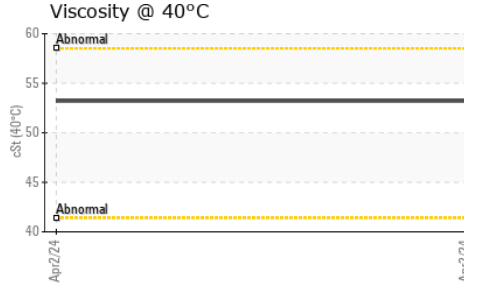
Particle Count



Particle Trend



Viscosity @ 40°C



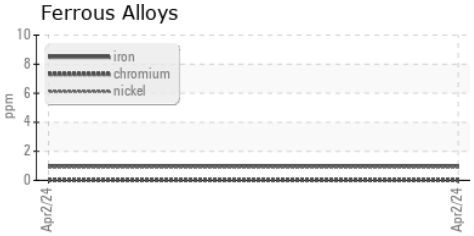
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**53.2**	---	---

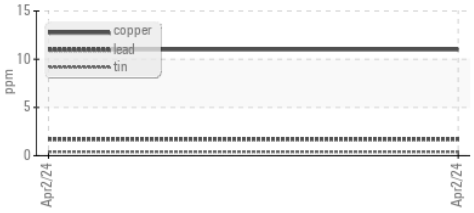
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

Ferrous Alloys

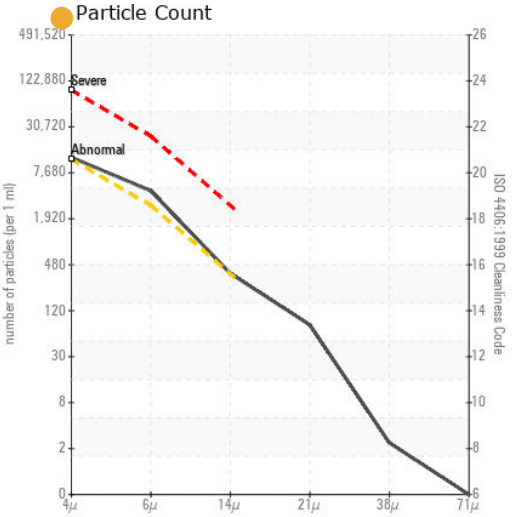


Non-ferrous Metals

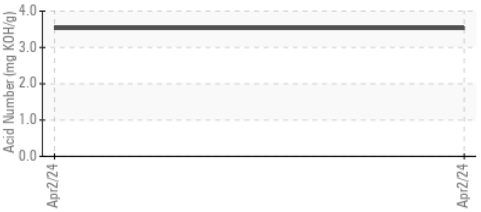


Viscosity @ 40°C

Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DFP0000106
Lab Number : 06139879
Unique Number : 10964687
Test Package : PLANT

Received : 05 Apr 2024
Tested : 08 Apr 2024
Diagnosed : 09 Apr 2024 - Angela Borella

To discuss this sample report, contact Customer Service at 1-833-307-5970.
** - 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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