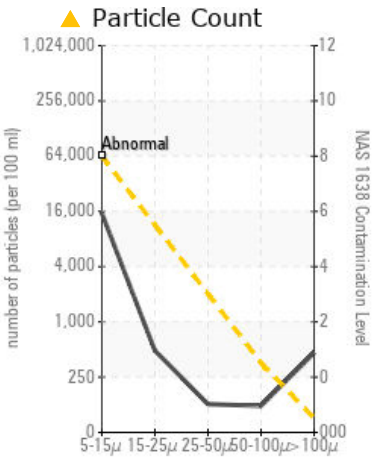
PROBLEM SUMMARY

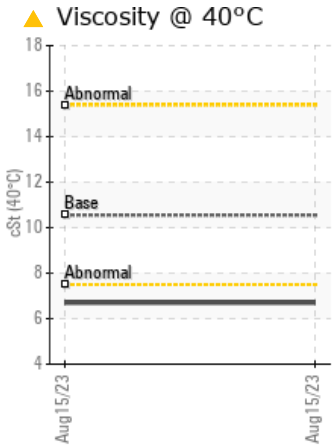
Sample Rating Trend

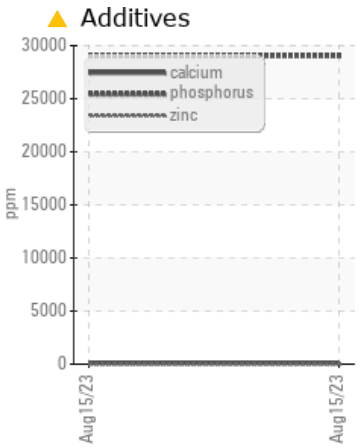
VISCOSITY

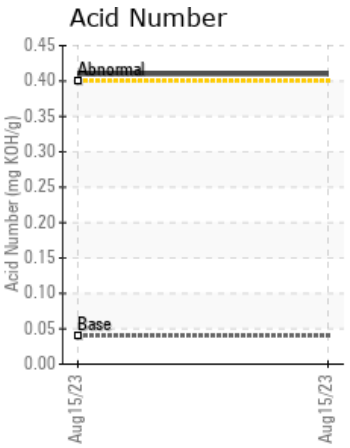
Machine Id
AIRBUS N685TA YELLOW
Component
Hydraulic System
Fluid
ESSO HYJET IV-A PLUS (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. NOTE: Not enough sample submitted to perform particle count, therefore fluid cleanliness levels were not determined.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Phosphorus	ppm	ASTM D5185(m)	37	▲ **29043**	---	---
Particles >100µm	count	NAS 1638	>64	▲ **460**	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	10.55	▲ **6.7**	---	---

Customer Id: KELMOU
Sample No.: WC0838471
Lab Number: 02576623
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Alert	---	---	?	NOTE: Not enough sample submitted to perform particle count, therefore fluid cleanliness levels were not determined.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Machine Id
AIRBUS N685TA YELLOW
Component
Hydraulic System
Fluid
ESSO HYJET IV-A PLUS (--- GAL)

DIAGNOSIS

Recommendation
Confirm the source of the lubricant being utilized for top-up/fill. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. NOTE: Not enough sample submitted to perform particle count, therefore fluid cleanliness levels were not determined.

Wear
All component wear rates are normal.

Contamination
The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition
Viscosity of sample indicates oil is within ISO 7 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0838471**	---	---
Sample Date		Client Info		**15 Aug 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	**2**	---	---
Chromium	ppm	ASTM D5185(m)	>10	**1**	---	---
Nickel	ppm	ASTM D5185(m)	>10	**0**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>10	**1**	---	---
Lead	ppm	ASTM D5185(m)	>20	**0**	---	---
Copper	ppm	ASTM D5185(m)	>20	**3**	---	---
Tin	ppm	ASTM D5185(m)	>10	**0**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**6**	---	---

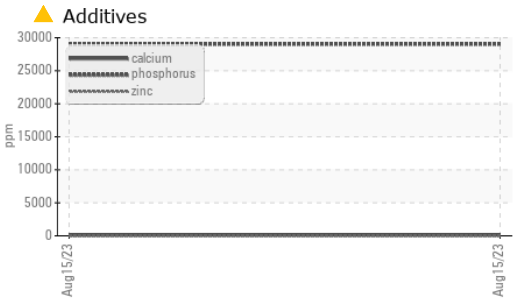
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	---	---
Barium	ppm	ASTM D5185(m)		**0**	---	---
Molybdenum	ppm	ASTM D5185(m)		**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)		**1**	---	---
Calcium	ppm	ASTM D5185(m)	110	**108**	---	---
Phosphorus	ppm	ASTM D5185(m)	37	▲ **29043**	---	---
Zinc	ppm	ASTM D5185(m)		**6**	---	---
Sulfur	ppm	ASTM D5185(m)	220	**382**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

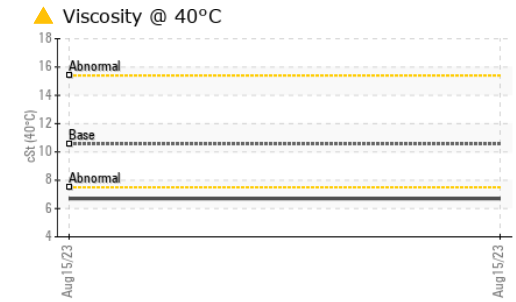
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**7**	---	---
Sodium	ppm	ASTM D5185(m)		**5**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**38**	---	---

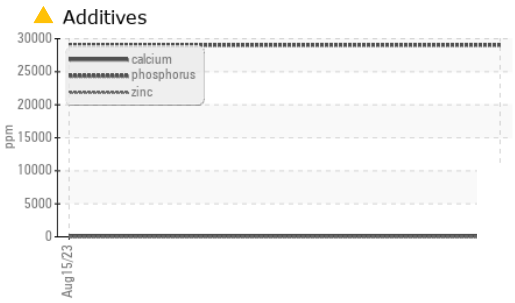
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles 5-15µm	count	NAS 1638	>64000	**15293**	---	---
Particles 15-25µm	count	NAS 1638	>11400	**486**	---	---
Particles 25-50µm	count	NAS 1638	>2025	**127**	---	---
Particles 50-100µm	count	NAS 1638	>360	**120**	---	---
Particles >100µm	count	NAS 1638	>64	▲ **460**	---	---
NAS 1638	Class	NAS 1638	>8	**11**	---	---

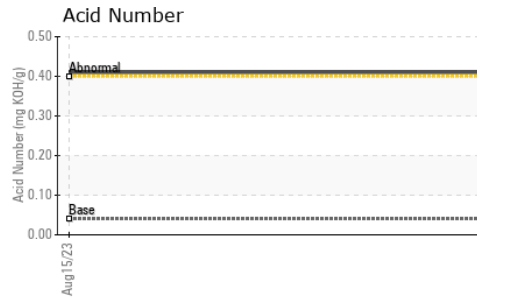
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	**0.41**	---	---

OIL ANALYSIS REPORT



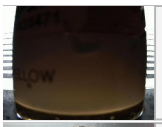




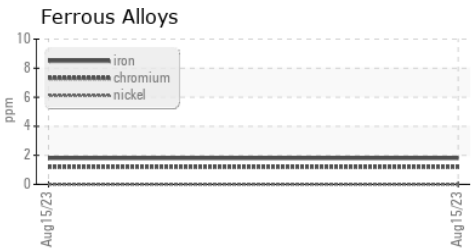


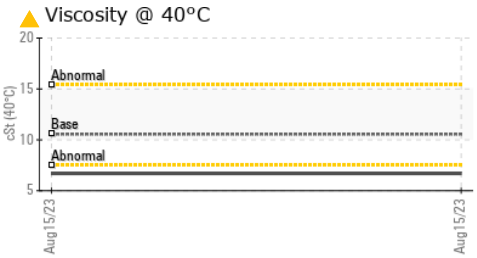
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>0.750	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

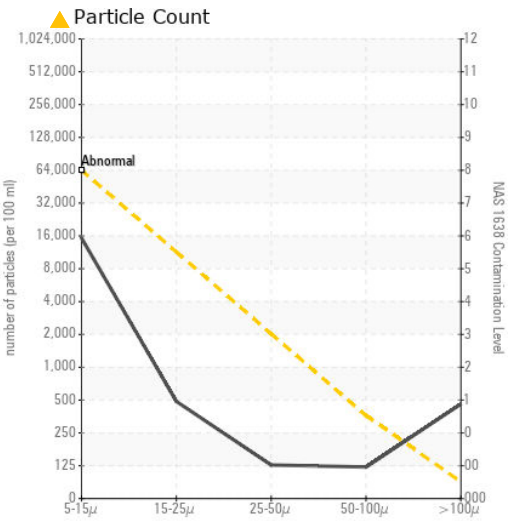
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	10.55	▲ **6.7**	---	---

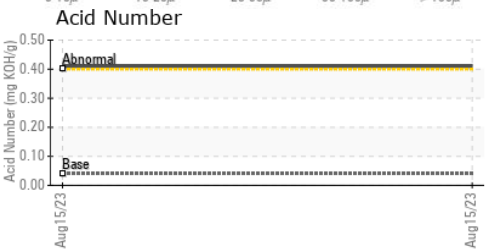
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS









ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0838471 **Received** : 17 Aug 2023
Lab Number : 02576623 **Diagnosed** : 23 Aug 2023
Unique Number : 5629683 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: PrtCountNAS)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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