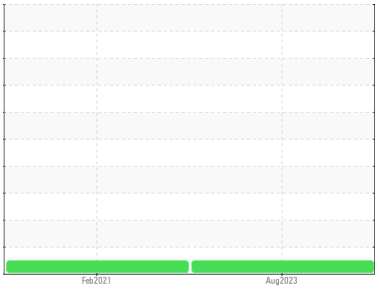
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
PU
Machine Id
[PU] 71
Component
Auxiliary Power Unit
Fluid
SKYDROL LD-4 (--- GAL)

DIAGNOSIS

Recommendation
The component was not specified so we have determined that this is a auxiliary power unit based on the fluid type in use. Please specify the correct component type on your next sample. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. (Customer Sample Comment: From the pump test port)

Wear
All component wear rates are normal.

Contamination
The water content is negligible. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable.

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		**WC0741652**	WC0493757	---
Sample Date		Client Info		**17 Aug 2023**	12 Feb 2021	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**NORMAL**	NORMAL	---

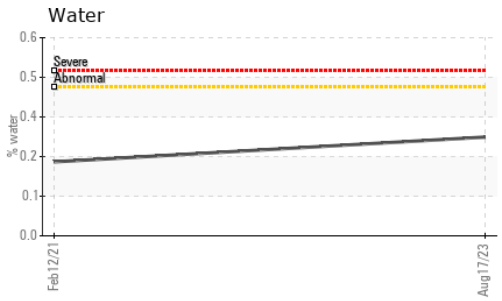
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		**3**	3	---
Chromium	ppm	ASTM D5185(m)		**0**	<1	---
Nickel	ppm	ASTM D5185(m)		**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)		**0**	<1	---
Aluminum	ppm	ASTM D5185(m)		**<1**	<1	---
Lead	ppm	ASTM D5185(m)		**<1**	0	---
Copper	ppm	ASTM D5185(m)		**4**	3	---
Tin	ppm	ASTM D5185(m)		**<1**	<1	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**2**	1	---

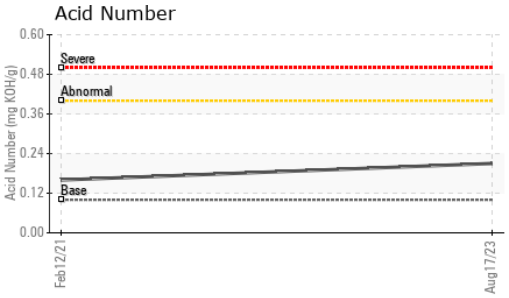
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**4**	1	---
Barium	ppm	ASTM D5185(m)	0	**0**	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	**0**	0	---
Manganese	ppm	ASTM D5185(m)		**0**	0	---
Magnesium	ppm	ASTM D5185(m)	0	**<1**	<1	---
Calcium	ppm	ASTM D5185(m)	0	**2**	1	---
Phosphorus	ppm	ASTM D5185(m)	20000	**28630**	39220	---
Zinc	ppm	ASTM D5185(m)	0	**35**	20	---
Sulfur	ppm	ASTM D5185(m)	1900	**1732**	1755	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

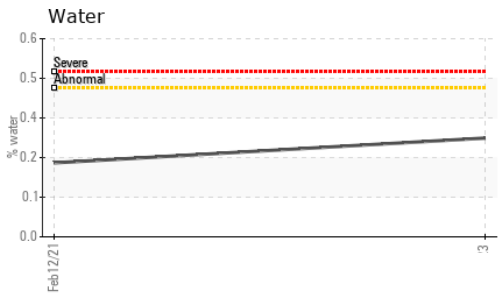
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**<1**	<1	---
Sodium	ppm	ASTM D5185(m)		**3**	2	---
Potassium	ppm	ASTM D5185(m)	>20	**21**	25	---
Water	%	ASTM D6304*	>0.45	**0.299**	0.224	---
ppm Water	ppm	ASTM D6304*	>4500	**2993.6**	2244.4	---

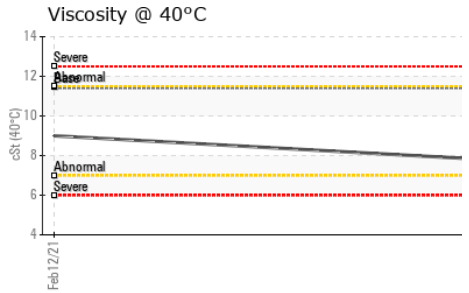
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles 5-15µm	count	NAS 1638	>32000	**7647**	24566	---
Particles 15-25µm	count	NAS 1638	>5700	**853**	1544	---
Particles 25-50µm	count	NAS 1638	>1012	**440**	547	---
Particles 50-100µm	count	NAS 1638	>180	**34**	35	---
Particles >100µm	count	NAS 1638	>32	**13**	0	---
NAS 1638	Class	NAS 1638	>7	**6**	7	---

OIL ANALYSIS REPORT





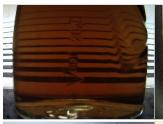




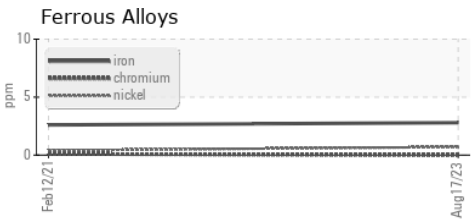
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	**0.21**	0.16	---

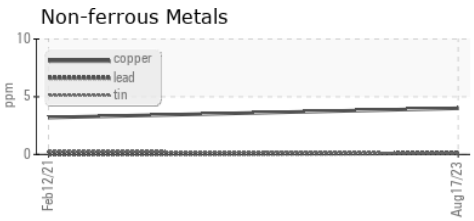
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**NONE**	NONE	---
Debris	scalar	Visual*	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	---
Appearance	scalar	Visual*	NORML	**NORML**	NORML	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	---
Emulsified Water	scalar	Visual*	>0.45	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

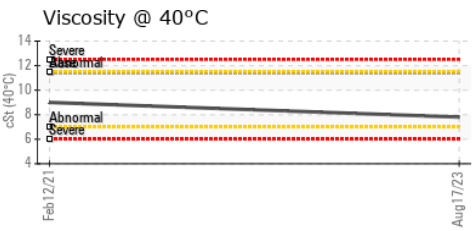
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	11.42	**7.8**	9.0	---

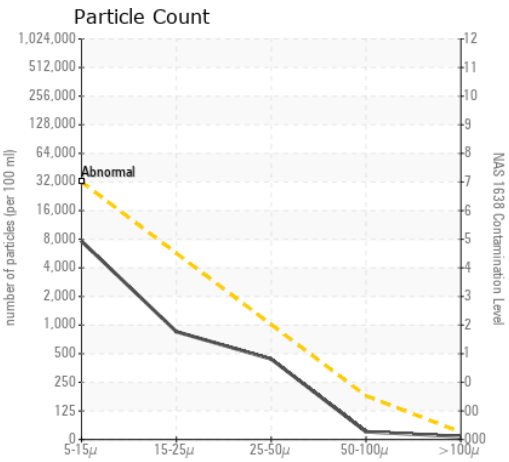
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

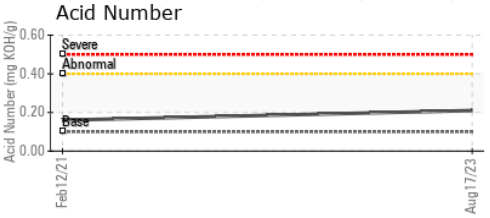
GRAPHS











CALA
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0741652 **Received** : 18 Aug 2023
Lab Number : 02576979 **Diagnosed** : 23 Aug 2023
Unique Number : 5630039 **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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