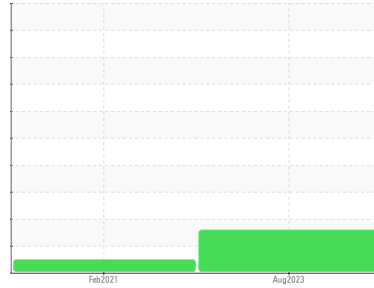




PROBLEM SUMMARY

Sample Rating Trend

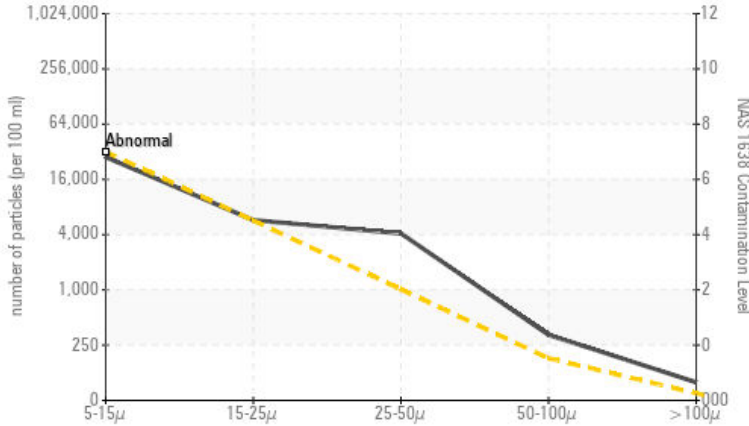
ISO



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

COMPONENT CONDITION SUMMARY

▲ Particle Count



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. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. (Customer Sample Comment: MLG test port G7000)

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	---
Particles 15-25µm	count	NAS 1638	>5700	▲ 5762	516	---
Particles 25-50µm	count	NAS 1638	>1012	▲ 4124	187	---
Particles 50-100µm	count	NAS 1638	>180	▲ 324	18	---
Particles >100µm	count	NAS 1638	>32	▲ 82	0	---

Customer Id: SAFAJA
 Sample No.: WC0741650
 Lab Number: 02576978
 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
Change Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	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.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

12 Feb 2021 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

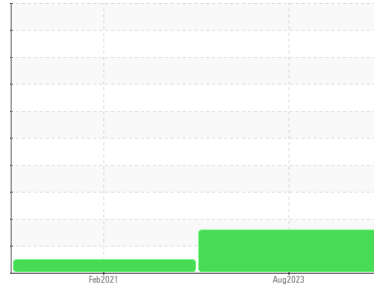
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



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 an auxiliary power unit based on the fluid type in use. Please specify the correct component type on your next sample. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. (Customer Sample Comment: MLG test port G7000)

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0741650	WC0493758	---
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			ABNORMAL	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	<1	---
Copper	ppm	ASTM D5185(m)	4	3	---
Tin	ppm	ASTM D5185(m)	0	<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	9	1
Barium	ppm	ASTM D5185(m)	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	<1
Calcium	ppm	ASTM D5185(m)	0	3	1
Phosphorus	ppm	ASTM D5185(m)	20000	28719	39249
Zinc	ppm	ASTM D5185(m)	0	42	19
Sulfur	ppm	ASTM D5185(m)	1900	1747	1753
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

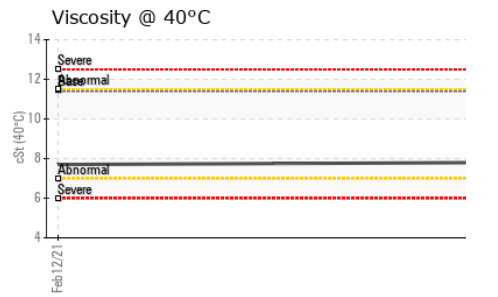
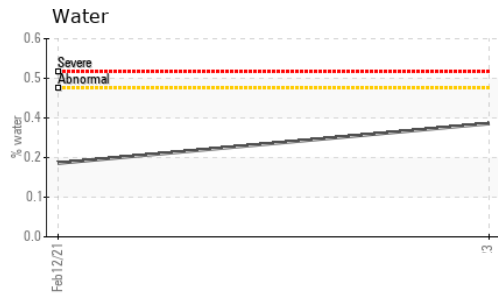
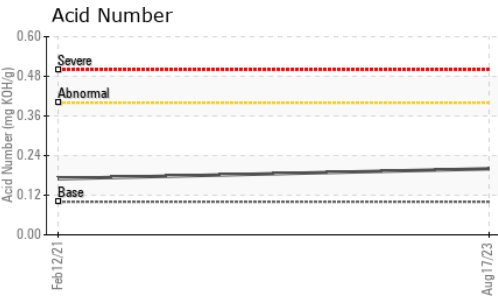
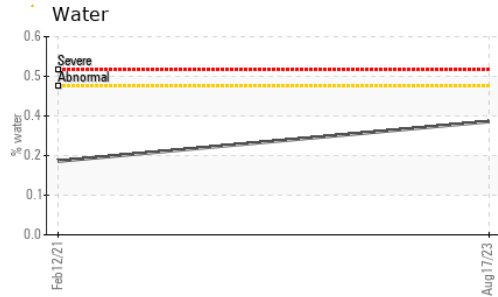
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1	<1	---
Sodium	ppm	ASTM D5185(m)	3	2	---
Potassium	ppm	ASTM D5185(m)	>20	21	---
Water	%	ASTM D6304*	>0.45	0.343	0.223
ppm Water	ppm	ASTM D6304*	>4500	3432.3	2238.6

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles 5-15µm	count	NAS 1638	>32000	27977	3679
Particles 15-25µm	count	NAS 1638	>5700	▲ 5762	516
Particles 25-50µm	count	NAS 1638	>1012	▲ 4124	187
Particles 50-100µm	count	NAS 1638	>180	▲ 324	18
Particles >100µm	count	NAS 1638	>32	▲ 82	0
NAS 1638	Class	NAS 1638	>7	10	5



OIL ANALYSIS REPORT

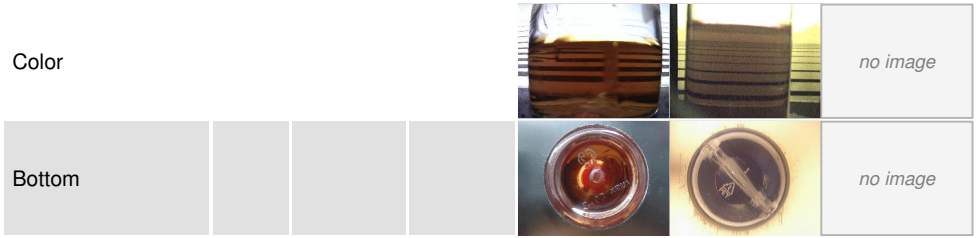


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	0.20	0.17	---

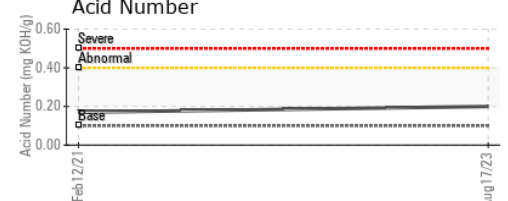
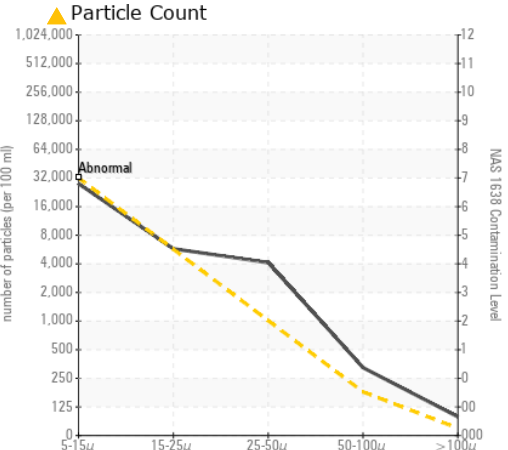
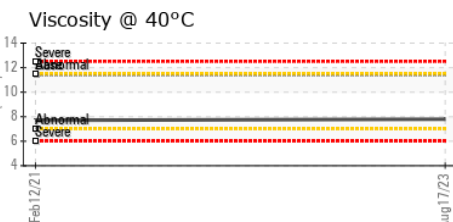
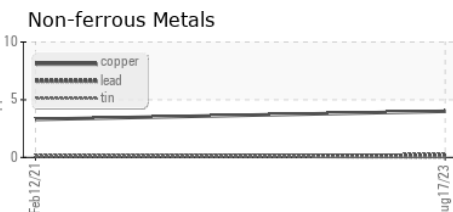
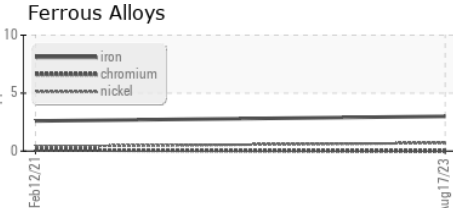
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	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	7.7	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0741650 **Received** : 18 Aug 2023
Lab Number : 02576978 **Diagnosed** : 23 Aug 2023
Unique Number : 5630038 **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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