



# OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Area

[MW052200]

Machine Id

TRONAIR 54310BH4C1N 8901181201

Component

Hydraulic System

Fluid

SKYDROL LD-4 (--- GAL)

## DIAGNOSIS

### Recommendation

We advise that you check for visible metal particles in the oil. 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.

### Wear

Moderate concentration of visible metal present. Cylinder wear is indicated.

### Contamination

Particles 25-50µm are abnormally high. Particles 50-100µm are abnormally high. Particles 5-15µm are abnormally high. The water content is negligible. The system cleanliness is above the acceptable limit for the target SAE AS4059 (replaces NAS 1638) cleanliness code.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Particle Filter (Magn: 100 x)



## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PP	---	---
Sample Date	Client Info	18 Aug 2022	---	---
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	<1	---	---
Chromium ppm ASTM D5185(m)	>10	0	---	---
Nickel ppm ASTM D5185(m)	>10	0	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>10	0	---	---
Lead ppm ASTM D5185(m)	>20	<1	---	---
Copper ppm ASTM D5185(m)	>20	<1	---	---
Tin ppm ASTM D5185(m)	>10	<1	---	---
Antimony ppm ASTM D5185(m)		<1	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		<1	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	0	4	---	---
Barium ppm ASTM D5185(m)	0	0	---	---
Molybdenum ppm ASTM D5185(m)	0	0	---	---
Manganese ppm ASTM D5185(m)		0	---	---
Magnesium ppm ASTM D5185(m)	0	<1	---	---
Calcium ppm ASTM D5185(m)	0	3	---	---
Phosphorus ppm ASTM D5185(m)	20000	42366	---	---
Zinc ppm ASTM D5185(m)	0	5	---	---
Sulfur ppm ASTM D5185(m)	1900	1799	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

## CONTAMINANTS

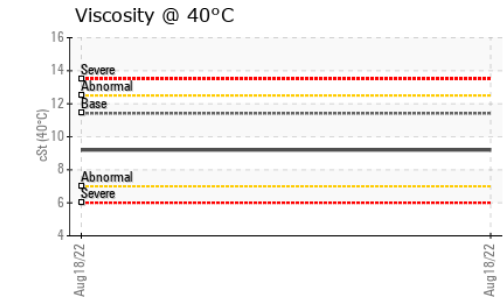
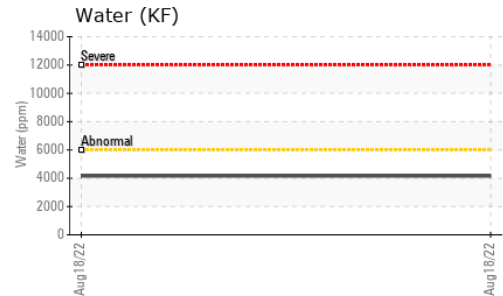
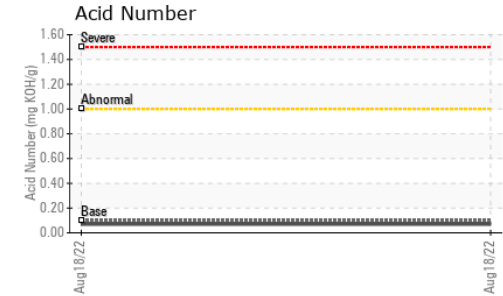
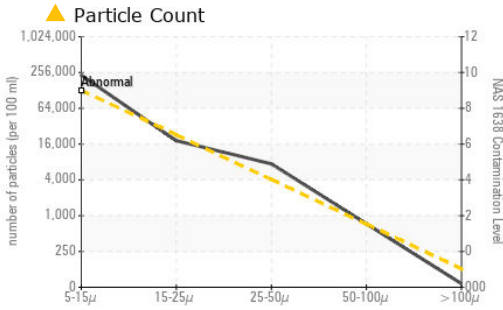
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	2	---	---
Sodium ppm ASTM D5185(m)		4	---	---
Potassium ppm ASTM D5185(m)	>20	16	---	---
Water % ASTM D6304*	>0.6	0.415	---	---
ppm Water ppm ASTM D6304*	>6000	4159.9	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles 5-15µm count NAS 1638	>127999	▲ 230821	---	---
Particles 15-25µm count NAS 1638	>22799	18251	---	---
Particles 25-50µm count NAS 1638	>4049	▲ 7437	---	---
Particles 50-100µm count NAS 1638	>719	▲ 728	---	---
Particles >100µm count NAS 1638	>127	25	---	---
NAS 1638 Class NAS 1638	>9	10	---	---



# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	<b>0.07</b>	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>▲ LIGHT</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.6	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	11.42	<b>9.2</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color					no image	no image
Bottom					no image	no image
PrtFilter					no image	no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP  
**Lab Number** : 02507113  
**Unique Number** : 5448083  
**Test Package** : IND 2 ( Additional Tests: Bottom, BottomAnalysis, FilterPatch, KF, PrtCountNAS, TBN, TBNact)

**SKYSERVICE F.B.O. INC.**  
 10105 RYAN AVENUE  
 DORVAL, QC  
 CA H9P 1A2  
 maintenance\_yul@skyservice.com

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.

T: (514)636-3625