

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



BC-10 BC-10 Component Gearbox

SCHAEFFER 50W (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

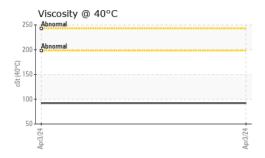
## **Fluid Condition**

The condition of the oil is acceptable for the time in service.

Sample Number   Client Info   WC0920458					Apr2024		
Sample Number   Client Info   WC0920458							
Sample Date   Client Info   03 Apr 2024	SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Machine Age         mths         Client Info         12	Sample Number		Client Info		WC0920458		
Oil Age         mths         Client Info         Changed	Sample Date		Client Info		03 Apr 2024		
Oil Changed Sample Status         Client Info         Changed NORMAL	Machine Age	mths	Client Info		0		
Sample Status	Oil Age	mths	Client Info		12		
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.2         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >200         75             Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         >10         0             Silver         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >25         2             Aluminum         ppm         ASTM D5185m         >20         <1             Aluminum         ppm         ASTM D5185m         >50         <1             Copper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         0	Oil Changed		Client Info		Changed		
Water         WC Method         >0.2         NEG             WEAR METALS         method         limil/base         current         history1         history2           Iron         ppm         ASTM D5185m         >200         75             Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         >10         0             Silver         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >50         <1             Aluminum         ppm         ASTM D5185m         >50         <1             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >1         2             Cadmium         ppm         ASTM D5185m         59	Sample Status				NORMAL		
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >200         75             Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         >10         0             Silver         ppm         ASTM D5185m         0              Aluminum         ppm         ASTM D5185m         >50         <1             Lead         ppm         ASTM D5185m         >50         <1             Lead         ppm         ASTM D5185m         >10         0             Lead         ppm         ASTM D5185m         >10         0             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >18             Cadmium         ppm         ASTM D5185m         18          -	CONTAMINATION	J	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.2	NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>200	75		
Titanium	Chromium	ppm	ASTM D5185m	>10	<1		
Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >25         2             Lead         ppm         ASTM D5185m         >50         <1             Copper         ppm         ASTM D5185m         >200         <1             Tin         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         10         0             Cadmium         ppm         ASTM D5185m         0              ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         59             ADDITIVES         method         limit/base         current         history1         history2           Barium         ppm         ASTM D5185m         191             Magnesium         ppm         ASTM D5185m         8	Nickel	ppm	ASTM D5185m	>10	0		
Aluminum	Titanium	ppm	ASTM D5185m		<1		
Lead	Silver	ppm	ASTM D5185m		0		
Copper         ppm         ASTM D5185m         >200         <1	Aluminum	ppm	ASTM D5185m	>25	2		
Tin         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         <1	Lead	ppm	ASTM D5185m	>50	<1		
Vanadium         ppm         ASTM D5185m         <1	Copper	ppm	ASTM D5185m	>200	<1		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         18             Barium         ppm         ASTM D5185m         59             Molybdenum         ppm         ASTM D5185m         191             Magnesium         ppm         ASTM D5185m         2             Magnesium         ppm         ASTM D5185m         8             Calcium         ppm         ASTM D5185m         880             Phosphorus         ppm         ASTM D5185m         892             Zinc         ppm         ASTM D5185m         8408             Sulfur         ppm         ASTM D5185m         8408             Sulfur         ppm         ASTM D5185m         50         9             Sodium         ppm         ASTM D5185m         16	Tin	ppm	ASTM D5185m	>10	0		
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1		
Boron	Cadmium	ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         191             Manganese         ppm         ASTM D5185m         2             Magnesium         ppm         ASTM D5185m         8             Calcium         ppm         ASTM D5185m         2957             Phosphorus         ppm         ASTM D5185m         880             Zinc         ppm         ASTM D5185m         892             Sulfur         ppm         ASTM D5185m         8408             Sulfur         ppm         ASTM D5185m         8408             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         9             Sodium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual </th <th>Boron</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>18</th> <th></th> <th></th>	Boron	ppm	ASTM D5185m		18		
Manganese         ppm         ASTM D5185m         2             Magnesium         ppm         ASTM D5185m         8             Calcium         ppm         ASTM D5185m         2957             Phosphorus         ppm         ASTM D5185m         880             Zinc         ppm         ASTM D5185m         892             Sulfur         ppm         ASTM D5185m         8408             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         9             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar <th>Barium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>59</th> <th></th> <th></th>	Barium	ppm	ASTM D5185m		59		
Magnesium         ppm         ASTM D5185m         8             Calcium         ppm         ASTM D5185m         2957             Phosphorus         ppm         ASTM D5185m         880             Zinc         ppm         ASTM D5185m         892             Sulfur         ppm         ASTM D5185m         8408             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         9             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE	Molybdenum	ppm	ASTM D5185m		191		
Calcium         ppm         ASTM D5185m         2957             Phosphorus         ppm         ASTM D5185m         880             Zinc         ppm         ASTM D5185m         892             Sulfur         ppm         ASTM D5185m         8408             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         50         9             Sodium         ppm         ASTM D5185m         20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE            Silt         scalar <th>Manganese</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>2</th> <th></th> <th></th>	Manganese	ppm	ASTM D5185m		2		
Phosphorus         ppm         ASTM D5185m         880             Zinc         ppm         ASTM D5185m         892             Sulfur         ppm         ASTM D5185m         8408             CONTAMINANTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185m         >50         9             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           VISUAL         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE	Magnesium	ppm	ASTM D5185m		8		
Zinc         ppm         ASTM D5185m         892             Sulfur         ppm         ASTM D5185m         8408             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         9             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             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	Calcium	ppm	ASTM D5185m		2957		
Sulfur         ppm         ASTM D5185m         8408             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         9             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             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         NORML </th <th>Phosphorus</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>880</th> <th></th> <th></th>	Phosphorus	ppm	ASTM D5185m		880		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         9             Sodium         ppm         ASTM D5185m         >20         16             Potassium         ppm         ASTM D5185m         >20         2             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         NORML         NORML             Appearance         scalar         *Vis	Zinc	ppm	ASTM D5185m		892		
Silicon         ppm         ASTM D5185m         >50         9             Sodium         ppm         ASTM D5185m         16             Potassium         ppm         ASTM D5185m         >20         2             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         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Godor         scalar         *Visual	Sulfur	ppm	ASTM D5185m		8408		
Sodium         ppm         ASTM D5185m         16             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         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         >0.2	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         2             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         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG	Silicon	ppm	ASTM D5185m	>50	9		
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 LIGHT  Sand/Dirt scalar *Visual NONE NONE  Appearance scalar *Visual NORML NORML  Debris scalar *Visual NORML NORML  Emulsified Water scalar *Visual >0.2 NEG	Sodium	ppm			16		
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         LIGHT             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG	Potassium	ppm	ASTM D5185m	>20	2		
Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         LIGHT             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         LIGHT             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG	White Metal	scalar	*Visual	NONE	NONE		
Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         LIGHT             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris scalar *Visual NONE LIGHT Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Codor scalar *Visual NORML NORML NORML Scalar *Visual NORML NORML Scalar *Visual Scalar *Vi	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Debris	scalar	*Visual	NONE	LIGHT		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG	Appearance	scalar	*Visual	NORML	NORML		
	• •	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.2	NEG		
	Free Water	scalar	*Visual		NEG		

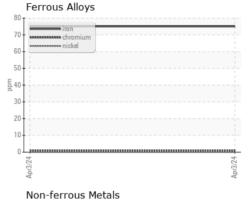


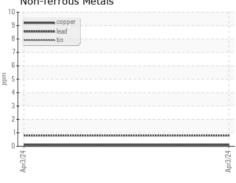
# **OIL ANALYSIS REPORT**

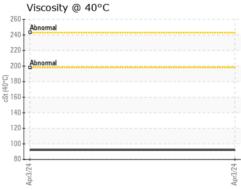


FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		92.1		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

### **GRAPHS**











Certificate 12367

Laboratory Lab Number : 06149161

Sample No. : WC0920458 Unique Number : 10979239

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Apr 2024

Tested : 16 Apr 2024

: 17 Apr 2024 - Sean Felton Diagnosed

MAUK, GA US 31058 Contact: Phil Ivanisin

phil.ivanisin@coviacorp.com T: (478)244-7020

1333 SANDPIT ROAD

**COVIA - JUNCTION CITY - 095** 

Test Package : CONST To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)