

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

#### C-311 Component Compressor Fluid {not provided} (--- 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.

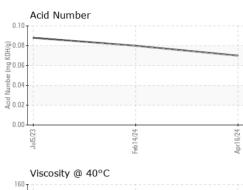
# Fluid Condition

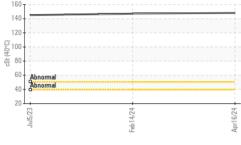
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

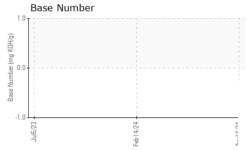
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0824912	WC0824925	WC0824919
Sample Date		Client Info		16 Apr 2024	14 Feb 2024	05 Jul 2023
Machine Age	hrs	Client Info		4272	2976	640
Oil Age	hrs	Client Info		4272	2976	640
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	1	0
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>15	0	7	<1
Lead	ppm	ASTM D5185m	>65	0	1	0
Copper	ppm	ASTM D5185m	>65	<1	1	1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	<1	2
Calcium	ppm	ASTM D5185m		11	1	11
Phosphorus	ppm	ASTM D5185m		24	15	20
Zinc	ppm	ASTM D5185m		5	9	3
Sulfur	ppm	ASTM D5185m		870	0	84
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	0	4	0
Sodium	ppm	ASTM D5185m		5	3	4
Potassium	ppm	ASTM D5185m	>20	2	<1	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.07	0.08	0.088



# **OIL ANALYSIS REPORT**







White Metal scalar 'Visual NONE NONE NONE NONE NONE Precipitate scalar 'Visual NONE NONE NONE NONE NONE Sitt scalar 'Visual NONE NONE NONE NONE NONE Sand/Dirt scalar 'Visual NONE NONE NONE NONE Appearance scalar 'Visual NORML NORML NORML NORML NORML Odior scalar 'Visual NORML NORML NORML NORML NORML Color scalar 'Visual NORML NORML NORML NORML NORML Sitt scalar 'Visual NORML NORML NORML NORML NORML Normal NORML NORML NORML NORML NORML Normal NORML NORML NORML NORML Normal Normal Norma	Feb14/24	Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML	NONE NONE NONE NONE NORE	NONE NONE NONE NONE NONE NORML
Precipitate scalar *Visual NONE NONE NONE NONE NONE Sitt scalar *Visual NONE NONE NONE NONE Sand/Dirit scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NORML NORML NORML NORML NORML Odor c scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual *Visual >0.1 NEG NEG NEG Free Water scalar *Visual *Visual ** NEG NEG NEG Free Water scalar *Visual ** NEG NEG NEG NEG NEG Free Water scalar *Visual ** NEG NEG NEG NEG NEG NEG Free Water scalar ** Neg	Feb 14/24	Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NORML NORML	NONE NONE NONE NONE NORML	NONE NONE NONE NONE NORML	NONE NONE NONE NORE
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Openris       scalar       *Visual       NONE       NONE       NONE       NONE       NONE         Appearance       scalar       *Visual       NONE       NONE       NONE       NONE       NONE       NONE         Appearance       scalar       *Visual       NORML	Feb 14/24	Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NORE NORML	NONE NONE NORML	NONE NONE NORML	NONE NONE NORML
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Appearance scalar *Visual NORML NORM	Feb14/24	Appearance Odor Emulsified Water Free Water	scalar scalar scalar	*Visual *Visual *Visual	NORML NORML	NORML	NORML	NORML
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Free Water       scalar       *Visual       NEG       NEG       NEG         FLUID PROPERTIES       method       limit/base       current       history1       history2         Visc @ 40°C       cSt       ASTM D445       148       147       145         SAMPLE IMAGES       method       limit/base       current       history1       history2         Color       no image       no image       no image       no image       no image         Bottom       Image       start       start       start       start       start         Manual       Manual       start       start       start       start       start       start         Manual       Manual       start       start       start       start       start       start       start       start         Manual       manual       start		Free Water			. 0 1			
FLUID PROPERTIES       method       limit/base       current       history1       history2         Visc @ 40°C       cSt       ASTM D445       148       147       145         SAMPLE IMAGES       method       limit/base       current       history1       history2         Color       no image       no image       no image       no image       no image       no image         Bottom       Iron (ppm)       Iron (ppm) <td< th=""><th></th><th></th><th>scalar</th><th></th><th>&gt;0.1</th><th></th><th></th><th></th></td<>			scalar		>0.1			
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GRAPHS Iron (ppm)		Bottom				no image	no image	no image
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Iron (ppm)     Lead (ppm)       100     Severe       40     Egg       40     Severe		GRAPHS						
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eb 14/			24 +		24		24	
		Jul5/	eb 14//		Apr16/	Jul5/	eb14//	c.
		Copper (ppm)				Silicon (ppm)	Labor	
150 Severe		150 Severe			10	0 T		
E 100 Abnormal	E	Abnormal			E 5	T		
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Jul5/23		150 T			HOX BL			
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Jul5/23		0	- 53		24 +		24 +	2
Viscosity @ 40°C		23	1.14			~	1	2
Copper (ppm) <sup>150</sup> Severe <sup>100</sup> Severe <u>Abnormal</u>	Шd	Copper (ppm)	Feb14/24		10 5 4 9 4 9 4 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Silicon (ppm)	Feb14/24	
	8	50						
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Viscosity @ 40°C		/23	12					

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Contact/Location: P. PRIEBE - TERMCE