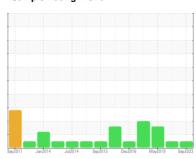


## **OIL ANALYSIS REPORT**

### Sample Rating Trend







# VILTER 7

Component

Refrigeration Compressor

FRICK COMPRESSOR OIL #9 (--- 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. The amount and size of particulates present in the system are acceptable.

#### **Fluid Condition**

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

		Sep2011	Jan 2014 Jul 2014	Sep2015 Dec2016 May2019	Sep 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP249725	USP203368	USP172137
Sample Date		Client Info		29 Sep 2023	20 Aug 2020	16 May 2019
Machine Age	hrs	Client Info		66190	57216	51776
Oil Age	hrs	Client Info		4658	2694	2650
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	<1	5
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	1	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		0	17	12
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.01	0.004	0.009	△ 0.012
ppm Water	ppm	ASTM D6304	>100	40.5	90.6	<b>▲</b> 120
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	1141	500	2848
Particles >6µm		ASTM D7647	>2500	253	87	567
Particles >14µm		ASTM D7647	>320	12	5	29
Particles >21µm		ASTM D7647	>80	4	0	7
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/18/15	17/15/11	16/14/10	19/16/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

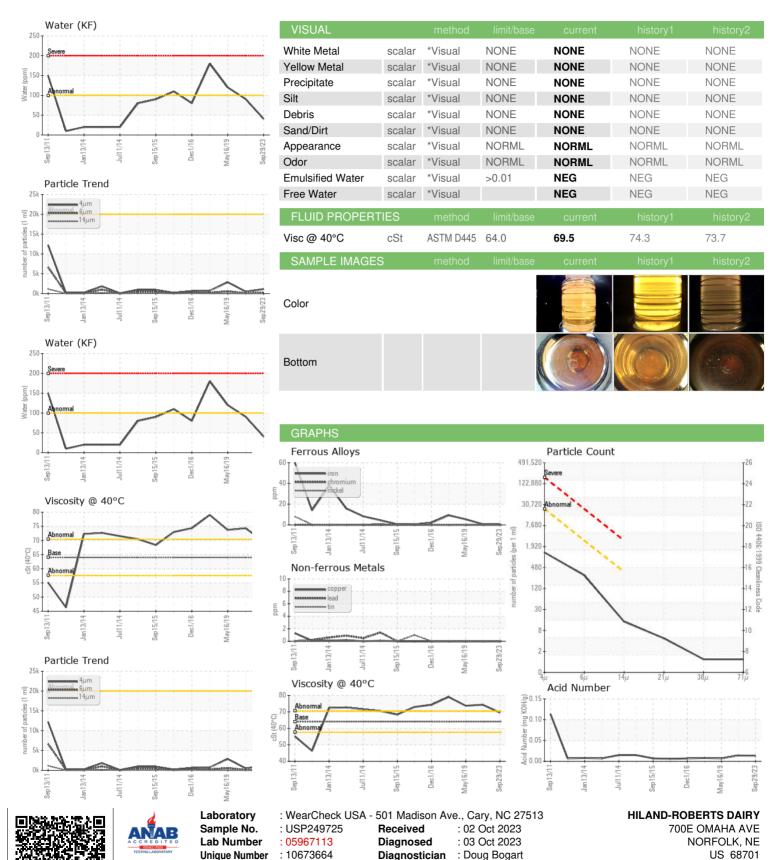
mg KOH/g ASTM D974

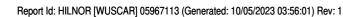
**0.013** 0.014 0.007 Contact/Location: MATT SHOOP - HILNOR

Report Id: HILNOR [WUSCAR] 05967113 (Generated: 10/05/2023 03:56:01) Rev: 1



## **OIL ANALYSIS REPORT**





Certificate L2367

Test Package

: IND 2

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)

Contact/Location: MATT SHOOP - HILNOR

Contact: MATT SHOOP

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