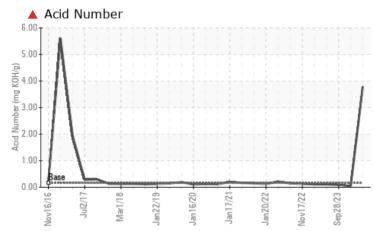


# **PROBLEM SUMMARY**

#### Machine Id INGERSOLL RAND 2 INGERSOLL RAND 100HP (S/N NF50403U04349) Component Air Compressor

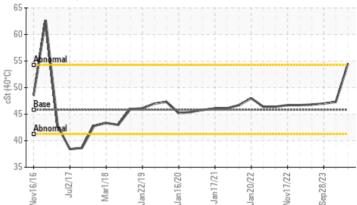
Fluid USPI MAX FG AIR 46 (--- LTR)

# COMPONENT CONDITION SUMMARY



# Viscosity @ 40°C

DEGRADATION



## RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	NORMAL		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	<b>3.78</b>	0.05	0.091		
Visc @ 40°C	cSt	ASTM D445	45.8	<b>6</b> 54.5	47.3	47.0		

Sample Rating Trend

Customer Id: CARNEB Sample No.: USPM6145897 Lab Number: 06145897 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.			
Flush System			?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.			
Resample			?	We recommend an early resample to monitor this condition.			

# HISTORICAL DIAGNOSIS



# 28 Dec 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report



#### 28 Sep 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 19 Jun 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.









# **OIL ANALYSIS REPORT**

Sample Rating Trend

# DEGRADATION

X

# Machine Id INGERSOLL RAND 2 INGERSOLL RAND 100HP (S/N NF50403U04349) Air Compressor

Fluid

USPI MAX FG AIR 46 (--- LTR)

# DIAGNOSIS

# Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

# 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.

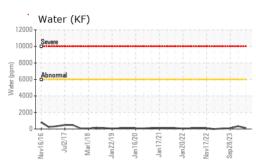
## Fluid Condition

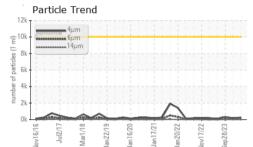
The AN level is above the recommended limit. The oil viscosity is higher than normal. Confirmed.

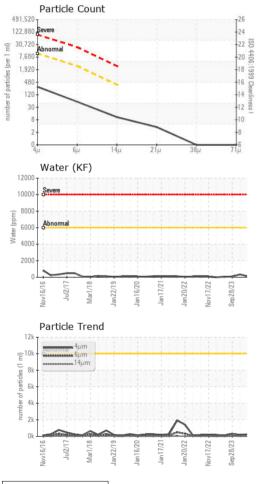
Sample NumberClient InfoUSPM31689USPM31689USPM32923Sample DateClient Info10 Apr 202428 Dec 202328 Sep 2023Machine AgehrsClient Info000Oil AgehrsClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/AN/AMEAR METALSmethodImiteCurrentNorMALNorMALIronppmASTM 05165>50000ChromiumppmASTM 05165>44000NickelppmASTM 05165>44000SilverppmASTM 05165>44000SilverppmASTM 05165>10000CopperppmASTM 05165>10000CopperppmASTM 05165>50000VanadiumppmASTM 05165>50000ResppmASTM 05165>50000CopperppmASTM 05165>50000NameppmASTM 051650000MagenesppmASTM 051650000MagenesppmASTM 051650000MandelppmASTM 051650000MagenesppmASTM 051650000<	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age     hrs     Client Info     0     0     0       Oil Age     hrs     Client Info     N/A     N/A     N/A       Sample Status     ESEVERE     NORMAL     NORMAL     NORMAL       WEAR METALS     method     Imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >44     0     0     0       Nickel     ppm     ASTM D5185m     >44     0     0     0       Titanium     ppm     ASTM D5185m     >40     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     >50     0     0     0       Cadmium     ppm     ASTM D5185m     >50     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Maganese     ppm     ASTM D5185m     0     0     0     0       Maganese	Sample Number		Client Info		USPM6145897	USPM31689	USPM29781
Oil Age     hrs     Client Info     0     0     0       Oil Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     o     Imitod     Imit/Dase     current     history1     history2       Iron     ppm     ASTM 05185m     >50     0     0     0       Othormium     ppm     ASTM 05185m     >4     0     0     0       Nickel     ppm     ASTM 05185m     >4     0     0     0       Aluminum     ppm     ASTM 05185m     >20     0     0     0       Copper     ppm     ASTM 05185m     >20     0     0     0       Cadmium     ppm     ASTM 05185m     >5     0     0     0       Cadmium     ppm     ASTM 05185m     >5     0     0     0       Striu 05185m     0     0     0     0     0     0       Cadmium     ppm     ASTM 05185m     0     0     0     0	Sample Date		Client Info		10 Apr 2024	28 Dec 2023	28 Sep 2023
Oil Changed Sample Status     Client Info     N/A     N/A     N/A     N/A       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     0     0     0       Chromium     ppm     ASTM D5185m     >44     0     0     0       Nickel     ppm     ASTM D5185m     >44     0     0     0       Intanium     ppm     ASTM D5185m     >44     0     0     0       Aluminum     ppm     ASTM D5185m     >40     0     0     0       Lead     ppm     ASTM D5185m     >10     0     0     0       Vanadium     ppm     ASTM D5185m     >10     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0	Machine Age	hrs	Client Info		0	0	0
Sample Status     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     0     0     0       Nickel     ppm     ASTM D5185m     >4     0     0     0       Nickel     ppm     ASTM D5185m     >4     0     0     0       Silver     ppm     ASTM D5185m     >10     0     0     0       Aluminum     ppm     ASTM D5185m     >10     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     >5     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0     0       Magneseium     ppm     ASTM D5185m     0     0     0     0     0       Barium     ppm     ASTM D5185m     0	Oil Age	hrs	Client Info		0	0	0
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     0     0     0       Nickel     ppm     ASTM D5185m     >4     0     0     0       Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     >10     0     0     0       Aluminum     ppm     ASTM D5185m     >10     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Magnaese     ppm     ASTM D5185m     0     0     0     0       Magnaese     ppm     ASTM D5185m     0     0     0     0	Oil Changed		Client Info		N/A	N/A	N/A
Iron     ppm     ASTM D5185m     >50     0     0     0       Chromium     ppm     ASTM D5185m     >4     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Auminum     ppm     ASTM D5185m     >10     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     >20     0     0     0       Addium     ppm     ASTM D5185m     0     0     0     0       Addium     ppm     ASTM D5185m     0     0     0     0       Addium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     0 <th>Sample Status</th> <th></th> <th></th> <th></th> <th>SEVERE</th> <th>NORMAL</th> <th>NORMAL</th>	Sample Status				SEVERE	NORMAL	NORMAL
Chromium     ppm     ASTM D5185m     >4     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     0     0     0       Astm D5185m     0     0     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Vanadium     ppm     ASTM D5185m     >5     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Astm D5185m     0     0     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Cadium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     AST	WEAR METALS		method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185m     >4     0     0     0       Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     10     0     0     0       Aluminum     ppm     ASTM D5185m     >10     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0     0       Copper     ppm     ASTM D5185m     >40     0     <1     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0     0     0     0	Iron	ppm	ASTM D5185m	>50	0	0	0
Titanium     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     >10     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Marganese     ppm     ASTM D5185m     0     0     0     0       Marganese     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     0     35     0     0       Sulfur <th>Chromium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;4</th> <th>0</th> <th>0</th> <th>0</th>	Chromium	ppm	ASTM D5185m	>4	0	0	0
Silver     ppm     ASTM D5185m     0     0     0     0       Aluminum     ppm     ASTM D5185m     >10     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >5     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     Imit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnanese     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     0     0     0     0	Nickel	ppm	ASTM D5185m	>4	0	0	0
Aluminum     ppm     ASTM D5185m     >10     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >40     0     <1     0       Tin     ppm     ASTM D5185m     >5     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Agnesium     ppm     ASTM D5185m     0     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     0     0       Sulfur     ppm     ASTM D5185m     0     0	Titanium	ppm	ASTM D5185m		0	0	0
Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >40     0     <1     0       Tin     ppm     ASTM D5185m     >5     0     0     0       Vanadium     ppm     ASTM D5185m     5     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Marganese     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     0     35     0     0       Sulfur     ppm     ASTM D5185m     0     35     0	Silver	ppm	ASTM D5185m		0	0	0
Copper     ppm     ASTM D5185m     >40     0     <1	Aluminum	ppm	ASTM D5185m	>10	0	0	0
Copper     ppm     ASTM D5185m     >40     0     <1	Lead			>20	0	0	0
Tin     ppm     ASTM D5185m     >5     0     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     0     0     0       Mainganese     ppm     ASTM D5185m     0     0     0     0       Manganese     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     0       Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     25     <1     <1     <1     0	Copper		ASTM D5185m	>40	0	<1	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     0     0     0       Barium     ppm     ASTM D5185m     0     <1     0     0       Maganese     ppm     ASTM D5185m     0     0     <1     0       Magnesium     ppm     ASTM D5185m     0     0     0     0     0       Vanganese     ppm     ASTM D5185m     0     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0     1     1       Sulfur     ppm     ASTM D5185m     0     0     0     0     0       Sodium     ppm     ASTM D5185m     >20     0     2     0     0     0     0     0     0     0			ASTM D5185m	>5	0		0
Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     0       Magnesse     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     0     35     0     0       Sulfur     ppm     ASTM D5185m     >25     <1     <1     <1       Sulfur     ppm     ASTM D5185m     >20     0     22     0	Vanadium				-		0
Boron     ppm     ASTM D5185m     0     <1	Cadmium				0	0	0
Barium     ppm     ASTM D5185m     0     <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum     ppm     ASTM D5185m     0     0     0     0       Manganese     ppm     ASTM D5185m     0     0     -<1     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Calcium     ppm     ASTM D5185m     0     <1     0     0       Phosphorus     ppm     ASTM D5185m     0     0     0     0     0       Zinc     ppm     ASTM D5185m     0     0     0     0     1       Sulfur     ppm     ASTM D5185m     0     35     0     0       CONTAMINANTS     method     imit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     <1     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     0.007        Pottassium     ppm     ASTM D5185m     >20     0     0.007        ppm     ASTM D5185m     >20     0	Boron	ppm	ASTM D5185m	0	0	0	0
Manganese     ppm     ASTM D5185m     0     <1	Barium	ppm	ASTM D5185m	0	<1	0	0
Magnesium     ppm     ASTM D5185m     0      0     0     0       Calcium     ppm     ASTM D5185m     0     <1     0     0       Phosphorus     ppm     ASTM D5185m     0     0     0     0       Zinc     ppm     ASTM D5185m     0     0     0     1       Sulfur     ppm     ASTM D5185m     0     35     0     0       Sulfur     ppm     ASTM D5185m     0     35     0     0       Sulfur     ppm     ASTM D5185m     >25     <1     <1     <1       Sodium     ppm     ASTM D5185m     >25     <1     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     22     0       Water     %     ASTM D5185m     >20     0     0.033     0.007       ppm Water     ppm     ASTM D6304     >6000     101     338     75.4       FLUID CLEANLINESS     method     Imit/base     current	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium     ppm     ASTM D5185m     0     <1	Manganese	ppm	ASTM D5185m		0	<1	0
Phosphorus     ppm     ASTM D5185m     0     0     0     0     1       Zinc     ppm     ASTM D5185m     0     35     0     0       Sulfur     ppm     ASTM D5185m     0     35     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     <1     <1     <1       Sodium     ppm     ASTM D5185m     >25     <1     3     0       Potassium     ppm     ASTM D5185m     >20     0     2     0       Water     %     ASTM D6304     >0.6     0.010     0.033     0.007       ppm     ASTM D6304     >6000     101     338     75.4       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     257     156     316       Particles >14µm     ASTM D7647     >20     9     11<	Magnesium	ppm	ASTM D5185m	0	0	0	0
Zinc     ppm     ASTM D5185m     0     0     35     0     1       Sulfur     ppm     ASTM D5185m     0     35     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     <1     <1     3     0       Potassium     ppm     ASTM D5185m     >20     0     2     0       Water     %     ASTM D5085m     >20     0     0.0033     0.007       ppm Water     ppm     ASTM D6304     >0.6     0.010     0.033     0.007       ppm Water     ppm     ASTM D6304     >0.6     0.010     0.033     0.007       particles >4µm     ASTM D7647     >10000     257     156     316       Particles >6µm     ASTM D7647     >2500     49     59     69       Particles >14µm     ASTM D7647     >320     9     11     8       Particles >21µm     ASTM D7647     >20     0	Calcium	ppm	ASTM D5185m	0	<1	0	0
Sulfur     ppm     ASTM D5185m     0     35     0     0       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     <1     <1     <1       Sodium     ppm     ASTM D5185m     >25     <1     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     2     0       Potassium     ppm     ASTM D6304     >0.6     0.010     0.033     0.007       ppm Water     %     ASTM D6304     >0.6     0.010     0.033     0.007       ppm Water     ppm     ASTM D6304     >0.60     101     338     75.4       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     257     156     316       Particles >6µm     ASTM D7647     >20     9     11     8       Particles >14µm     ASTM D7647     >20     0	Phosphorus	ppm	ASTM D5185m	0	0	0	0
CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m<>25     <1     <1     <1       Sodium     ppm     ASTM D5185m     >25     <1     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     2     0       Potassium     ppm     ASTM D5185m     >20     0     0.033     0.007       Water     %     ASTM D6304     >0.6     0.010     0.033     0.007       ppm Water     ppm     ASTM D6304     >6000     101     338     75.4       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     257     156     316       Particles >6µm     ASTM D7647     >2500     49     59     69       Particles >14µm     ASTM D7647     >320     9     11     8       Particles >38µm     ASTM D7647     20     0     0     0	Zinc	ppm	ASTM D5185m	0	0	0	1
Silicon   ppm   ASTM D5185m<>25   <1   <1   <1     Sodium   ppm   ASTM D5185m   <1   3   0     Potassium   ppm   ASTM D5185m   >20   0   2   0     Water   %   ASTM D6304   >0.6   0.010   0.033   0.007     ppm Water   ppm   ASTM D6304   >6000   101   338   75.4     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >10000   257   156   316     Particles >6µm   ASTM D7647   >2500   49   59   69     Particles >6µm   ASTM D7647   >320   9   11   8     Particles >14µm   ASTM D7647   >80   3   7   2     Particles >38µm   ASTM D7647   >20   0   0   0     Particles >71µm   ASTM D7647   >20   0   0   0   0     Oil Cleanliness   ISO 4406 (c)   >20/18/15   15/13/10   14/13/11   15/13/10	Sulfur	ppm	ASTM D5185m	0	35	0	0
Sodium     ppm     ASTM D5185m     <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium     ppm     ASTM D5185m     >20     0     2     0       Water     %     ASTM D6304     >0.6     0.010     0.033     0.007       ppm     ASTM D6304     >0.6     0.010     0.033     0.007       ppm Water     ppm     ASTM D6304     >6000     101     338     75.4       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     257     156     316       Particles >6µm     ASTM D7647     >2500     49     59     69       Particles >14µm     ASTM D7647     >320     9     11     8       Particles >21µm     ASTM D7647     >80     3     7     2       Particles >38µm     ASTM D7647     >20     0     0     0       Particles >71µm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     15/13/10     14/13/11     15/13/10	Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Water     %     ASTM D6304     >0.6     0.010     0.033     0.007       ppm Water     ppm     ASTM D6304     >6000     101     338     75.4       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     257     156     316       Particles >6µm     ASTM D7647     >2500     49     59     69       Particles >6µm     ASTM D7647     >320     9     11     8       Particles >21µm     ASTM D7647     >80     3     7     2       Particles >38µm     ASTM D7647     >20     0     0     0       Particles >71µm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     15/13/10     14/13/11     15/13/10       FLUID DEGRADATION     method     limit/base     current     history1     history2	Sodium	ppm	ASTM D5185m		<1	3	0
ppm Water     ppm     ASTM D6304     >6000     101     338     75.4       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     257     156     316       Particles >6µm     ASTM D7647     >2500     49     59     69       Particles >6µm     ASTM D7647     >320     9     11     8       Particles >14µm     ASTM D7647     >320     9     11     8       Particles >21µm     ASTM D7647     >20     0     0     0       Particles >38µm     ASTM D7647     >20     0     0     0       Particles >71µm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     15/13/10     14/13/11     15/13/10       FLUID DEGRADATION     method     limit/base     current     history1     history2	Potassium	ppm	ASTM D5185m	>20	0	2	0
FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >10000     257     156     316       Particles >6µm     ASTM D7647     >2500     49     59     69       Particles >6µm     ASTM D7647     >320     9     11     8       Particles >14µm     ASTM D7647     >320     9     11     8       Particles >21µm     ASTM D7647     >80     3     7     2       Particles >38µm     ASTM D7647     >20     0     0     0       Particles >71µm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     15/13/10     14/13/11     15/13/10       FLUID DEGRADATION     method     limit/base     current     history1     history2	Water	%	ASTM D6304	>0.6	0.010	0.033	0.007
Particles >4μm   ASTM D7647   >10000   257   156   316     Particles >6μm   ASTM D7647   >2500   49   59   69     Particles >14μm   ASTM D7647   >320   9   11   8     Particles >21μm   ASTM D7647   >80   3   7   2     Particles >21μm   ASTM D7647   >20   0   0   0     Particles >38μm   ASTM D7647   >20   0   0   0     Particles >71μm   ASTM D7647   >4   0   0   0     Oil Cleanliness   ISO 4406 (c)   >20/18/15   15/13/10   14/13/11   15/13/10     FLUID DEGRADATION   method   limit/base   current   history1   history2	ppm Water	ppm	ASTM D6304	>6000	101	338	75.4
Particles >6μm     ASTM D7647     >2500     49     59     69       Particles >14μm     ASTM D7647     >320     9     11     8       Particles >21μm     ASTM D7647     >80     3     7     2       Particles >21μm     ASTM D7647     >20     0     0     0       Particles >38μm     ASTM D7647     >20     0     0     0       Particles >71μm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     15/13/10     14/13/11     15/13/10       FLUID DEGRADATION     method     limit/base     current     history1     history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14μm     ASTM D7647     >320     9     11     8       Particles >21μm     ASTM D7647     >80     3     7     2       Particles >38μm     ASTM D7647     >20     0     0     0       Particles >71μm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     15/13/10     14/13/11     15/13/10       FLUID DEGRADATION     method     limit/base     current     history1     history2					257		
Particles >21 μm     ASTM D7647     >80     3     7     2       Particles >38μm     ASTM D7647     >20     0     0     0       Particles >38μm     ASTM D7647     >20     0     0     0       Particles >71μm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     15/13/10     14/13/11     15/13/10       FLUID DEGRADATION     method     limit/base     current     history1     history2							
Particles >38μm     ASTM D7647     >20     0     0     0       Particles >71μm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     15/13/10     14/13/11     15/13/10       FLUID DEGRADATION     method     limit/base     current     history1     history2							
Particles >71μm     ASTM D7647     >4     0     0     0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     15/13/10     14/13/11     15/13/10       FLUID DEGRADATION     method     limit/base     current     history1     history2				>80		7	2
Oil Cleanliness     ISO 4406 (c)     >20/18/15 <b>15/13/10</b> 14/13/11     15/13/10       FLUID DEGRADATION     method     limit/base     current     history1     history2	•		ASTM D7647	>20			0
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>4	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	15/13/10	14/13/11	15/13/10
Acid Number (AN) mg KOH/g ASTM D8045 0.16 <b>A 3.78</b> 0.05 0.091	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	<b>3.78</b>	0.05	0.091



# **OIL ANALYSIS REPORT**



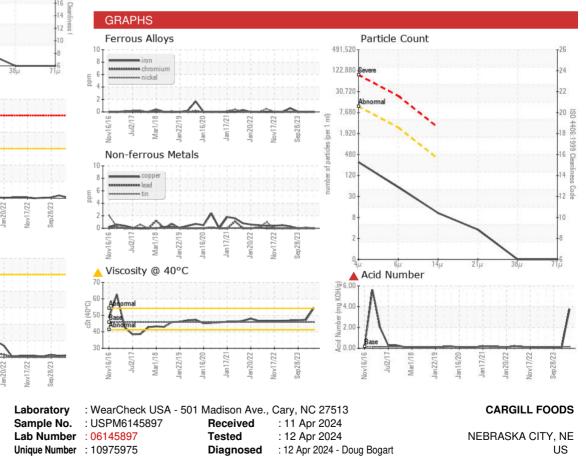


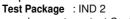


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.8	▲ 54.5	47.3	47.0
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						•

Bottom





- 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)

Report Id: CARNEB [WUSCAR] 06145897 (Generated: 04/12/2024 16:27:51) Rev: 1

Certificate 12367

Contact/Location: SERVICE MANAGER - CARNEB

Contact: SERVICE MANAGER

T:

F: