

Area TM 11 Machine Id

# **PROBLEM SUMMARY**

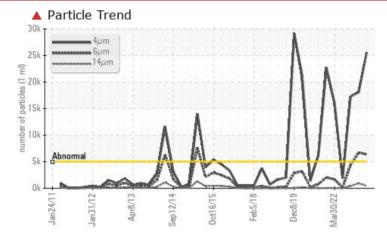
Sample Rating Trend ISO ....



Lube System Fluid AW HYDRAULIC OIL ISO 68 (--- GAL)

TM 11 YANKEE HOOD FANS

# COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			SEVERE	ABNORMAL	ABNORMAL		
Particles >4µm	ASTM D7647	>5000	<b>4</b> 25568	<u> </u>	🔺 17271		
Particles >6µm	ASTM D7647	>1300	<b>6377</b>	6698	<b>4</b> 339		
Particles >14µm	ASTM D7647	>160	<b>423</b>	<b>4</b> 942	<b>4</b> 06		
Particles >21µm	ASTM D7647	>40	<b>6</b> 3	🔺 254	<b>1</b> 10		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>22/20/16</b>	<u> </u>	🔺 21/19/16		

Customer Id: KIMMOBTM11 Sample No.: RP0038097 Lab Number: 06237786 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDE	D ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component if applicable.

### HISTORICAL DIAGNOSIS

# ISO M le

**30 Jan 2024 Diag: Don Baldridge** We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





#### 09 Aug 2023 Diag: Don Baldridge

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

# Area TM 11 Machine Id TM 11 YANKEE HOOD FANS

Lube System

AW HYDRAULIC OIL ISO 68 (--- GAL)

# DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil.

### Fluid Condition

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

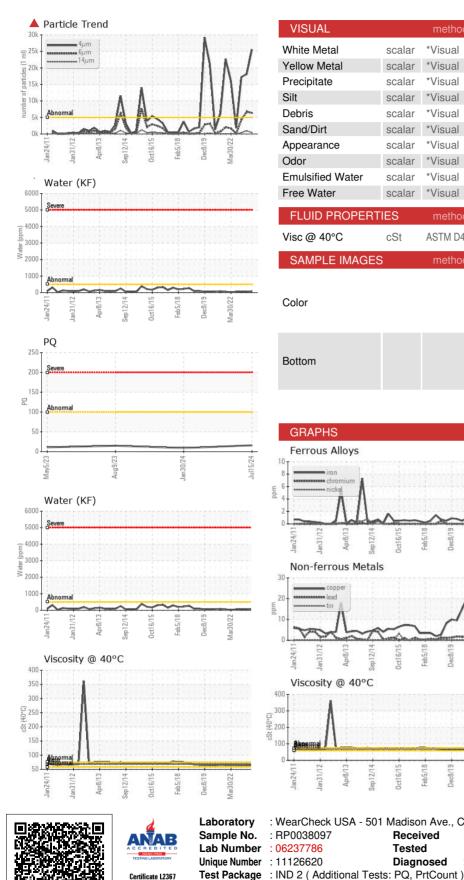
Sample Number   Client Info   RP0038097   RP0037972   RP0034373     Sample Date   Client Info   0   0   0   0     Machine Age   hrs   Client Info   0   0   0   0     Oil Age   Client Info   0   0   0   0   0     Oil Changed   Client Info   N/A   N/A   N/A   N/A     Sample Status   method   Imit/base   current   history1   history2     PQ   ASTM 05185m   >20   1   2   2     Chromium   ppm   ASTM 05185m   >20   0   0   -1     Trainium   ppm   ASTM 05185m   >20   0   -1   -1     Silver   ppm   ASTM 05185m   >20   0   -1   -1   -2   2   2   -2   -2   -2   -2   -2   -2   -2   -2   -2   -2   -2   -2   -2   -2   -2   -2   -2			n2011 Jan20	12 Apr2013 Sep2014	0ct2015 Feb2018 Dec2019	Mar2022	
Sample Date   Client Info   15 Jul 2024   30 Jan 2024   09 Aug 202     Machine Age   hrs   Client Info   0   0   0     Oil Age   hrs   Client Info   0   0   0     Oil Changed   Client Info   N/A   N/A   N/A   ABNORMAL     Sample Status   SEVERE   ABNORMAL   ABNORMAL   ABNORMAL     WEAR METALS   method   Imit/base   current   history1   history1     PQ   ASTM D5185m   >20   0   0   <1   <1     Chromium   ppm   ASTM D5185m   >20   0   0   <1     Nickel   ppm   ASTM D5185m   >20   0   0   <1     Lead   ppm   ASTM D5185m   >20   0   <1   0     Vanadium   ppm   ASTM D5185m   20   0   <1   0     Cadmium   ppm   ASTM D5185m   20   0   <1   <1     Bariu   ppm	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Date   Client Info   15 Jul 2024   30 Jan 2024   09 Aug 202     Machine Age   hrs   Client Info   0   0   0     Oil Age   hrs   Client Info   0   0   0     Sample Status   Client Info   N/A   N/A   N/A   ABNORMAL     WEAR METALS   method   Imit/base   current   history1   history1     PQ   ASTM D5185m   >20   0   0   -1     Chromium   ppm   ASTM 05185m   >20   0   0   -1     Nickel   ppm   ASTM 05185m   >20   0   0   -1   -1     Nickel   ppm   ASTM 05185m   >20   0   0   -1 </td <td>Sample Number</td> <td></td> <td>Client Info</td> <td></td> <td>RP0038097</td> <td>RP0037972</td> <td>RP0034373</td>	Sample Number		Client Info		RP0038097	RP0037972	RP0034373
Machine Age   hrs   Client Info   0   0   0     Oil Age   hrs   Client Info   0   0   0     Oil Age   hrs   Client Info   N/A   N/A   N/A     Sample Status   Client Info   N/A   N/A   N/A   N/A     WEAR METALS   method   Imit/base   current   history1   history2     PQ   ASTM D5185m   >20   1   2   2     Chromium   ppm   ASTM D5185m   >20   0   0   0     Titanium   ppm   ASTM D5185m   >20   0   0   0     Copper   ppm   ASTM D5185m   >20   0   <1	Sample Date		Client Info		15 Jul 2024	30 Jan 2024	09 Aug 2023
Oil Age   hrs   Client Info   0   0   0     Oil Changed   Client Info   N/A   N/A   N/A   N/A     Sample Status   Client Info   N/A   SEVERE   ABNORMAL   ABNORMAL     WEAR METALS   method   Imit/base   current   history1   history1     PQ   ASTM 05185m   >20   1   2   2     Chromium   ppm   ASTM 05185m   >20   0   0   0     Titanium   ppm   ASTM 05185m   >20   0   0   0   0     Aluminum   ppm   ASTM 05185m   >20   0   0   0   0     Aluminum   ppm   ASTM 05185m   >20   0   <1	•	hrs	Client Info		0	0	0
Oil Changed   Client Info   N/A   N/A   N/A   N/A     Sample Status   method   Imit/base   current   history1   ABNORMAL     WEAR METALS   method   Imit/base   current   history1   history2     PQ   ASTM D0184   16   9   15     Iron   ppm   ASTM D0185m   >20   0   0   <1	U	hrs	Client Info		0	0	0
Sample Status   method   Imit/base   current   history1   ABNORMAL     VEAR METALS   method   limit/base   current   history1   history2     PQ   ASTM D8184   16   9   15   cromium   ppm   ASTM D5185m   >20   0   0   <1	-		Client Info			N/A	N/A
PQ   ASTM D8184   16   9   15     Iron   ppm   ASTM D5185m   >20   0   0   <1	Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron   ppm   ASTM D5185m   >20   1   2   2     Chromium   ppm   ASTM D5185m   >20   0   0   <1	WEAR METALS		method	limit/base	current	history1	history2
Chromium   ppm   ASTM D5185m   >20   0   0   <1     Nickel   ppm   ASTM D5185m   >20   0   0   0     Silver   ppm   ASTM D5185m   0   0   0   0     Auminum   ppm   ASTM D5185m   >20   0   0   0     Lead   ppm   ASTM D5185m   >20   21   2   2     Copper   ppm   ASTM D5185m   >20   22   27   30     Tin   ppm   ASTM D5185m   >20   0   <1	PQ		ASTM D8184		16	9	15
Nickel   ppm   ASTM D5185m   >20   0   0   0     Titanium   ppm   ASTM D5185m   0   0   0   0     Silver   ppm   ASTM D5185m   20   0   0   0     Aluminum   ppm   ASTM D5185m   >20   c1   2   2     Copper   ppm   ASTM D5185m   >20   c1   2   2     Copper   ppm   ASTM D5185m   >20   0   <1	Iron	ppm	ASTM D5185m	>20	1	2	2
Titanium ppm ASTM D5185m 0 <1 <1   Silver ppm ASTM D5185m >20 0 0 0   Aluminum ppm ASTM D5185m >20 0 0 <1	Chromium	ppm	ASTM D5185m	>20	0	0	<1
Titanium ppm ASTM D5185m 0 <1 <1   Silver ppm ASTM D5185m >20 0 0 0   Aluminum ppm ASTM D5185m >20 0 0 <1	Nickel		ASTM D5185m	>20	0	0	0
Silver   ppm   ASTM D5185m   0   0   0   0     Aluminum   ppm   ASTM D5185m   >20   0   0   <1	Titanium				0	<1	<1
Aluminum   ppm   ASTM D5185m   >20   0   0   <1     Lead   ppm   ASTM D5185m   >20   <1	Silver				-	0	
Lead   ppm   ASTM D5185m   >20   <1   2   2     Copper   ppm   ASTM D5185m   >20   22   27   30     Tin   ppm   ASTM D5185m   >20   0   <1				>20	-		
Copper   ppm   ASTM D5185m   >20   22   27   30     Tin   ppm   ASTM D5185m   >20   0   <1					-		
Tin   ppm   ASTM D5185m   >20   0   <1   0     Vanadium   ppm   ASTM D5185m   0   <1							_
Vanadium   ppm   ASTM D5185m   0   <1   0     Cadmium   ppm   ASTM D5185m   0   0   0   0     ADDITIVES   method   limit/base   current   history1   history2     Boron   ppm   ASTM D5185m   5   0   0   0     Barium   ppm   ASTM D5185m   5   0   <1							
Cadmium   ppm   ASTM D5185m   0   0   0     ADDITIVES   method   limit/base   current   history1   history2     Boron   ppm   ASTM D5185m   5   0   0   0     Barium   ppm   ASTM D5185m   5   0   0   20     Magnese   ppm   ASTM D5185m   5   0   <1   <1     Magnesium   ppm   ASTM D5185m   25   48   36   33     Calcium   ppm   ASTM D5185m   25   48   36   33     Calcium   ppm   ASTM D5185m   200   49   32   34     Phosphorus   ppm   ASTM D5185m   370   334   281   318     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1   1   <1   <1     Sodium   ppm   ASTM D5185m   >20   0				>20			
ADDITIVES   method   limit/base   current   history1   history2     Boron   ppm   ASTM D5185m   5   0   0   0     Barium   ppm   ASTM D5185m   5   0   0   20     Molybdenum   ppm   ASTM D5185m   5   0   <1							
Boron   ppm   ASTM D5185m   5   0   0   0     Barium   ppm   ASTM D5185m   5   0   0   20     Molybdenum   ppm   ASTM D5185m   5   0   <1	Cadmium	ррпі	ASTIVI DOTODIII		U	0	0
Barium   ppm   ASTM D5185m   5   0   0   20     Molybdenum   ppm   ASTM D5185m   5   0   <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum   ppm   ASTM D5185m   5   0   <1   <1     Manganese   ppm   ASTM D5185m   25   48   36   33     Calcium   ppm   ASTM D5185m   200   49   32   34     Phosphorus   ppm   ASTM D5185m   200   49   32   34     Phosphorus   ppm   ASTM D5185m   300   297   264   297     Zinc   ppm   ASTM D5185m   370   334   281   318     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1	Boron	ppm	ASTM D5185m	5	0		
Marganese   ppm   ASTM D5185m   0   <1   <1     Magnesium   ppm   ASTM D5185m   25   48   36   33     Calcium   ppm   ASTM D5185m   200   49   32   34     Phosphorus   ppm   ASTM D5185m   300   297   264   297     Zinc   ppm   ASTM D5185m   370   334   281   318     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1	Barium	ppm	ASTM D5185m	5	0	0	20
Magnesium   ppm   ASTM D5185m   25   48   36   33     Calcium   ppm   ASTM D5185m   200   49   32   34     Phosphorus   ppm   ASTM D5185m   300   297   264   297     Zinc   ppm   ASTM D5185m   370   334   281   318     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1	Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
Calcium   ppm   ASTM D5185m   200   49   32   34     Phosphorus   ppm   ASTM D5185m   300   297   264   297     Zinc   ppm   ASTM D5185m   370   334   281   318     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1	Manganese	ppm	ASTM D5185m		0	<1	<1
Phosphorus   ppm   ASTM D5185m   300   297   264   297     Zinc   ppm   ASTM D5185m   370   334   281   318     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1	Magnesium	ppm	ASTM D5185m	25	48	36	33
Zinc   ppm   ASTM D5185m   370   334   281   318     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1	Calcium	ppm	ASTM D5185m	200	49	32	34
CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1	Phosphorus	ppm	ASTM D5185m	300	297	264	297
Silicon ppm ASTM D5185m >15 <1 1 <1   Sodium ppm ASTM D5185m 1 <1 <1 3   Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.007 0.006 0.006   ppm Water ppm ASTM D6304 >500 72 68 68.5   FLUID CLEANLINESS method limit/base current history1 history2   Particles >4µm ASTM D7647 >5000 25568 18092 17271   Particles >6µm ASTM D7647 >100 6377 6698 4339   Particles >14µm ASTM D7647 >160 423 942 406   Particles >21µm ASTM D7647 >10 5 7 5   Particles >38µm ASTM D7647 >3 0 0 0   Oil Cleanliness ISO 4406 (c) >19/17/14 22/20/16 21/20/17 21/19/16	Zinc	ppm	ASTM D5185m	370	334	281	318
Sodium   ppm   ASTM D5185m   1   <1   3     Potassium   ppm   ASTM D5185m   >20   0   0   0     Water   %   ASTM D6304   >0.05   0.007   0.006   0.006     ppm   Water   ppm   ASTM D6304   >500   72   68   68.5     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >5000   25568   18092   17271     Particles >6µm   ASTM D7647   >1300   6377   6698   4339     Particles >14µm   ASTM D7647   >160   423   942   406     Particles >21µm   ASTM D7647   >10   5   7   5     Particles >38µm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >19/17/14   22/20/16   21/20/17   21/19/16     FLUID DEGRADATION   method   limit/base   current   history1	CONTAMINANTS	i	method	limit/base	current	history1	history2
Sodium   ppm   ASTM D5185m   1   <1   3     Potassium   ppm   ASTM D5185m   >20   0   0   0     Water   %   ASTM D6304   >0.05   0.0007   0.006   0.006     ppm Water   ppm   ASTM D6304   >500   72   68   68.5     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >5000   ▲ 25568   ▲ 18092   ▲ 17271     Particles >6µm   ASTM D7647   >1300   ▲ 6377   ▲ 6698   ▲ 4339     Particles >6µm   ASTM D7647   >160   ▲ 423   ▲ 942   ▲ 406     Particles >14µm   ASTM D7647   >10   5   7   5     Particles >38µm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >19/17/14   22/20/16   ▲ 21/20/17   21/19/16     FLUID DEGRADATION   method   limit/base   current   history1	Silicon	ppm	ASTM D5185m	>15	<1	1	<1
Water   %   ASTM D6304   >0.05   0.007   0.006   0.006     ppm   Water   ppm   ASTM D6304   >500   72   68   68.5     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >5000   ▲ 25568   ▲ 18092   ▲ 17271     Particles >6µm   ASTM D7647   >1300   ▲ 6377   ▲ 6698   ▲ 4339     Particles >14µm   ASTM D7647   >160   ▲ 423   ▲ 942   ▲ 406     Particles >21µm   ASTM D7647   >40   ▲ 63   ▲ 254   ▲ 110     Particles >38µm   ASTM D7647   >10   5   7   5     Particles >71µm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >19/17/14   22/20/16   ▲ 21/20/17   ▲ 21/19/16     FLUID DEGRADATION   method   limit/base   current   history1   history2	Sodium		ASTM D5185m		1	<1	3
Water   %   ASTM D6304   >0.05   0.007   0.006   0.006     ppm Water   ppm   ASTM D6304   >500   72   68   68.5     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >5000   25568   18092   17271     Particles >6µm   ASTM D7647   >1300   6377   6698   4339     Particles >6µm   ASTM D7647   >160   423   942   406     Particles >14µm   ASTM D7647   >40   633   254   110     Particles >21µm   ASTM D7647   >10   5   7   5     Particles >38µm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >19/17/14   22/20/16   21/20/17   21/19/16     FLUID DEGRADATION   method   Imit/base   current   history1   history2	Potassium	ppm	ASTM D5185m	>20	0	0	0
ppm Water   ppm   ASTM D6304   >500   72   68   68.5     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >5000   25568   18092   17271     Particles >6µm   ASTM D7647   >1300   6377   6698   4339     Particles >6µm   ASTM D7647   >160   423   942   406     Particles >14µm   ASTM D7647   >160   423   942   406     Particles >21µm   ASTM D7647   >10   5   7   5     Particles >38µm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >19/17/14   22/20/16   21/20/17   21/19/16     FLUID DEGRADATION   method   limit/base   current   history1   history2	Water		ASTM D6304	>0.05	0.007	0.006	0.006
Particles >4µm ASTM D7647 >5000 ▲ 25568 ▲ 18092 ▲ 17271   Particles >6µm ASTM D7647 >1300 ▲ 6377 ▲ 6698 ▲ 4339   Particles >14µm ASTM D7647 >160 ▲ 423 ▲ 942 ▲ 406   Particles >21µm ASTM D7647 >40 ▲ 63 ▲ 254 ▲ 110   Particles >38µm ASTM D7647 >10 5 7 5   Particles >71µm ASTM D7647 >3 0 0 0   Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 22/20/16 ▲ 21/20/17 ▲ 21/19/16	ppm Water						
Particles >6µm ASTM D7647 >1300 ▲ 6377 ▲ 6698 ▲ 4339   Particles >14µm ASTM D7647 >160 ▲ 423 ▲ 942 ▲ 406   Particles >21µm ASTM D7647 >40 ▲ 63 ▲ 254 ▲ 110   Particles >38µm ASTM D7647 >10 5 7 5   Particles >71µm ASTM D7647 >3 0 0 0   Oil Cleanliness ISO 4406 (c) >19/17/14 22/20/16 ▲ 21/20/17 ▲ 21/19/16   FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm ASTM D7647 >160 ▲ 423 ▲ 942 ▲ 406   Particles >21µm ASTM D7647 >40 ▲ 63 ▲ 254 ▲ 110   Particles >38µm ASTM D7647 >10 5 7 5   Particles >71µm ASTM D7647 >3 0 0 0   Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 22/20/16 ▲ 21/20/17 ▲ 21/19/16   FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm		ASTM D7647	>5000	<b>2</b> 5568	▲ 18092	▲ 17271
Particles >21μm   ASTM D7647   >40   63   254   110     Particles >38μm   ASTM D7647   >10   5   7   5     Particles >37μm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >19/17/14   22/20/16   ≥1/20/17   ≥1/19/16     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >6µm		ASTM D7647	>1300	<b>6377</b>	▲ 6698	<b>4</b> 339
Particles >38μm   ASTM D7647   >10   5   7   5     Particles >71μm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >19/17/14   22/20/16   21/20/17   21/19/16     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >14µm		ASTM D7647	>160	<b>423</b>	<b>9</b> 42	<b>4</b> 06
Particles >38μm   ASTM D7647   >10   5   7   5     Particles >71μm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >19/17/14   22/20/16   21/20/17   21/19/16     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >21µm		ASTM D7647	>40	<b>6</b> 3	<b>A</b> 254	<u> </u>
Particles >71μm   ASTM D7647   >3   0   0   0     Oil Cleanliness   ISO 4406 (c)   >19/17/14   22/20/16   21/20/17   21/19/16     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >38µm						
Oil CleanlinessISO 4406 (c) >19/17/1422/20/1621/20/1721/19/16FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2							
	Oil Cleanliness						
Acid Number (AN) mg KOH/g ASTM D8045 0.57 0.39 0.49 0.42	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.39	0.49	0.42

Sample Rating Trend

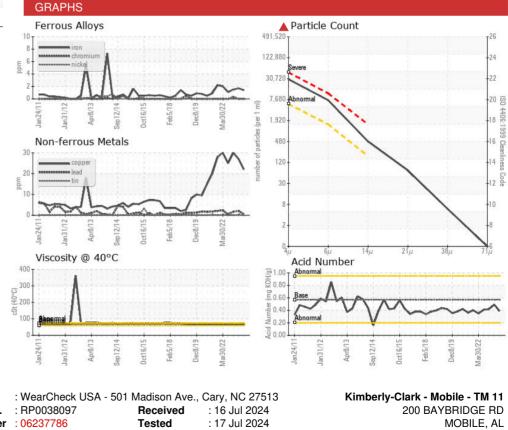
ISO



# **OIL ANALYSIS REPORT**



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	>0.05	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	68	64.4	64.8	63.5
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						
Bottom						



: 18 Jul 2024 - Don Baldridge

Diagnosed

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.

Contact/Location: LARRY WEAVER - KIMMOBTM11

F: (251)452-6335

US 36610

T:

Contact: LARRY WEAVER

Larry.D.Weaver@kcc.com