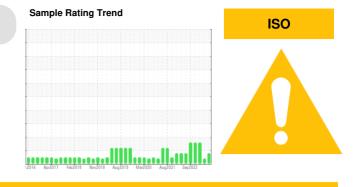
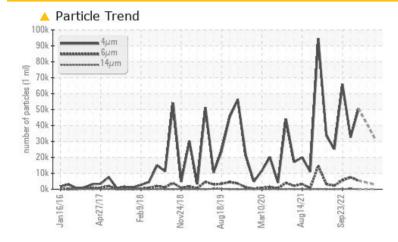


## **PROBLEM SUMMARY**



#### Machine Id **SDA** Component **Steering** Fluid **CHEVRON HYDRAULIC AW ISO 68 (150 GAL)**

### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL			
Particles >6µm	ASTM D7647 >13	00 🔺 3013		▲ 5398			
Oil Cleanliness	ISO 4406 (c) >/	17/14 🔺 <b>22/19/12</b>		<b>A</b> 23/20/13			

Customer Id: AMESAI Sample No.: MW0055072 Lab Number: 05962194 Test Package: MAR 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

#### **HISTORICAL DIAGNOSIS**

#### 11 Jun 2023 Diag: Don Baldridge



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.



#### 17 Mar 2023 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor.An increase in the copper level is noted. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.



view report

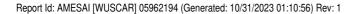
view report



#### 19 Dec 2022 Diag: Don Baldridge

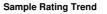
We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







## **OIL ANALYSIS REPORT**



# Machine Id

#### Component Steering

Fluid

### CHEVRON HYDRAULIC AW ISO 68 (150 GAL)

### DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

#### Fluid Condition

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

Sample Date     Initial Name     Client Info     Initial Sector     Initial Sector	4L)		12016 Apr20	17 Feb2018 Nov2018	Aug2019 Mar2020 Aug2021	Sep2022	
Sample Date     Client Info     19 Sep 2023     11 Jun 2023     17 Mar 2023       Machine Age     hrs     Client Info     37198     34849     0       Oil Age     hrs     Client Info     37198     0     32930       Oil Changed     Client Info     Not Changd     Not Changd     Not Changd       Sample Status     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     <1	SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Machine Age hrs Client Info 37198 34849 0   Oil Age hrs Client Info 7198 0 3293   Oil Changed Client Info Not Changd Not Changd Not Changd   Sample Status I Imil/bas ABNORMAL ABNORMAL   WEAR METALS method Imil/bas current history1 history2   Iron ppm ASTM D5185m >50 <1 2 1   Chromium ppm ASTM D5185m >50 0 0 0   Nickel ppm ASTM D5185m >55 0 0 0   Silver ppm ASTM D5185m >50 0 0 0   Gapper ppm ASTM D5185m >50 <1 2 1   Copper ppm ASTM D5185m >50 <1 0 0   Cadmium ppm ASTM D5185m >50 <1 <1 0   Cadmium ppm ASTM D5185m >5 <1 <1 0   Roron ppm ASTM D5185m >0 0 0 0   Bariaum ppm ASTM D5185m 0 0 0	Sample Number		Client Info		MW0055072	MW0050579	MW0040009
Oil Age     hrs     Client Info     37198     0     32930       Oil Changed     Client Info     Not Changd     Not Changd     Not Changd     Not Changd     Not Changd     Not Changd     ABNORMAL     ABNORMAL <td< th=""><td>Sample Date</td><td></td><td>Client Info</td><td></td><th>19 Sep 2023</th><td>11 Jun 2023</td><td>17 Mar 2023</td></td<>	Sample Date		Client Info		19 Sep 2023	11 Jun 2023	17 Mar 2023
Oli Changed Sample Status     Client Info     Not Changd ABNORMAL     Not Changd ABNORMAL     Not Changd ABNORMAL     Not Changd ABNORMAL       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     <1	Machine Age	hrs	Client Info		37198	34849	0
Sample Status     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     <1     2     1       Chromium     ppm     ASTM D5185m     >50     <1     2     1       Nickel     ppm     ASTM D5185m     >5     0     0     0       Nickel     ppm     ASTM D5185m     >5     0     0     0       Silver     ppm     ASTM D5185m     >5     0     0     0       Aluminum     ppm     ASTM D5185m     >5     0     0     0       Copper     ppm     ASTM D5185m     >5     <1     <1     0       Copper     ppm     ASTM D5185m     >5     <1     <1     0       Cadmium     ppm     ASTM D5185m     >5     <1     <1     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     1 <td< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>37198</th><th>0</th><th>32930</th></td<>	Oil Age	hrs	Client Info		37198	0	32930
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     <1     2     1       Chromium     ppm     ASTM D5185m     >15     0     0     0       Nickel     ppm     ASTM D5185m     >5     0     0     0       Silver     ppm     ASTM D5185m     >5     0     0     0       Aluminum     ppm     ASTM D5185m     >50     20     24     23       Tin     ppm     ASTM D5185m     >50     20     0     0       Vanadium     ppm     ASTM D5185m     >50     20     0     0       Vanadium     ppm     ASTM D5185m     55     <1     <10     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Iron     ppm     ASTM D5185m     >50     <1	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Chromium     ppm     ASTM D5185m     >15     0     0     0       Nickel     ppm     ASTM D5185m     >5     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     >5     0     0     0       Auminum     ppm     ASTM D5185m     >5     0     0     0       Lead     ppm     ASTM D5185m     >5     <1     <1     0       Cadmium     ppm     ASTM D5185m     >5     <1     <1     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Magnese     ppm     ASTM D5185m     0     <1     2     0       Magnesium     ppm     ASTM D5185m     285     312	WEAR METALS		method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185m     >5     0     0     0       Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     5     0     0     0       Aluminum     ppm     ASTM D5185m     >5     0     0     0       Lead     ppm     ASTM D5185m     >50     20     24     ▲ 23       Tin     ppm     ASTM D5185m     >5     <1     <1     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     <1     2     0       Magnesium     ppm     ASTM D5185m     0     <1     2     0       Magnesium     ppm     ASTM D5185m     285     312     332     2<	Iron	ppm	ASTM D5185m	>50	<1	2	1
Titanium     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     >5     0     0     0       Aluminum     ppm     ASTM D5185m     >5     0     0     0       Lead     ppm     ASTM D5185m     >10     <1     2     <1       Copper     ppm     ASTM D5185m     >5     <1     <1     0       Vanadium     ppm     ASTM D5185m     5     <1     <1     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Magnese     ppm     ASTM D5185m     0     <1     2     0       Molybdenum     ppm     ASTM D5185m     0     <1     2     0       Magnesium     ppm     ASTM D5185m     0     <1     2     32  <	Chromium	ppm	ASTM D5185m	>15	0	0	0
Silver     ppm     ASTM D5185m     >     0     0     0       Aluminum     ppm     ASTM D5185m     >5     0     0     0       Lead     ppm     ASTM D5185m     >10     <1     2     <1       Copper     ppm     ASTM D5185m     >50     20     24     ▲ 23       Tin     ppm     ASTM D5185m     >5     <1     <1     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     2     0     0       Magnesium     ppm     ASTM D5185m     0     <1     2     0       Magnesium     ppm     ASTM D5185m     0     <1     2     0     0       Sulfur     ppm     ASTM D5185m     1     3     33	Nickel	ppm	ASTM D5185m	>5	0		
Aluminum     ppm     ASTM D5185m     >5     0     0     0       Lead     ppm     ASTM D5185m     >10     <1     2     <1       Copper     ppm     ASTM D5185m     >50     20     24     ▲ 23       Tin     ppm     ASTM D5185m     >5     <1     <1     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDTIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     285     312     332     232       Zinc     ppm     ASTM D5185m     286     801     488	Titanium	ppm	ASTM D5185m		0	0	0
Lead   ppm   ASTM D5185m   >10   <1   2   <1     Copper   ppm   ASTM D5185m   >50   20   24   ▲ 23     Tin   ppm   ASTM D5185m   >5   <1   <1   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     Barium   ppm   ASTM D5185m   0   0   0   0     Magnesium   ppm   ASTM D5185m   0   <1   2   2     Magnesium   ppm   ASTM D5185m   285   312   332   32     Zinc   ppm   ASTM D5185m   328   331   309   309     Sulfur   ppm   ASTM D5185m   2   0   0   0     Sodium   ppm   ASTM D5185m   2   0   0	Silver	ppm	ASTM D5185m		-	0	
Copper     ppm     ASTM D5185m     >50     20     24     ▲ 23       Tin     ppm     ASTM D5185m     >5     <1     <1     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       Magnaese     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     <1     2     0       Magnesium     ppm     ASTM D5185m     0     <1     2     0       Calcium     ppm     ASTM D5185m     0     <1     2     32       Zinc     ppm     ASTM D5185m     285     312     332       Sulfur     ppm     ASTM D5185m     328     331     309  Sulfur<	Aluminum	ppm	ASTM D5185m	>5	0	0	0
Tin   ppm   ASTM D5185m   >5   <1	Lead	ppm		>10	<1	2	<1
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     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     0       Manganese     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     1     2       Calcium     ppm     ASTM D5185m     285     312     332       Zinc     ppm     ASTM D5185m     2866     801     488       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     <1     <1     1       Sodium     pp	Copper	ppm	ASTM D5185m	>50	20	24	<u> </u>
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     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     0       Manganese     ppm     ASTM D5185m     0     0     1     2       Calcium     ppm     ASTM D5185m     0     0     <1	Tin	ppm	ASTM D5185m	>5	<1	<1	0
ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     0     <1     0       Magnesium     ppm     ASTM D5185m     0     <1     2       Calcium     ppm     ASTM D5185m     0     <1     2       Calcium     ppm     ASTM D5185m     285     312     332       Zinc     ppm     ASTM D5185m     328     331     309       Sulfur     ppm     ASTM D5185m     686     801     488       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     <1     <1     1       Sodium     ppm     ASTM D5185m     >20     0     1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron     ppm     ASTM D5185m     0     0     0       Barium     ppm     ASTM D5185m     0     2     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     0     0     0       Magnesium     ppm     ASTM D5185m     0     <1     0     0       Magnesium     ppm     ASTM D5185m     0     <1     2     Calcium     ppm     ASTM D5185m     285     312     332       Zinc     ppm     ASTM D5185m     285     311     309       Sulfur     ppm     ASTM D5185m     285     311     309       Sulfur     ppm     ASTM D5185m     21     <1     1       Sodium     ppm     ASTM D5185m     22     0     0       Potassium     ppm     ASTM D5185m     22     0     0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       P	Cadmium	ppm	ASTM D5185m		0	0	0
Barium     ppm     ASTM D5185m     0     2     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     <1     0     0       Magnesium     ppm     ASTM D5185m     0     <1     2       Calcium     ppm     ASTM D5185m     0     <1     2       Calcium     ppm     ASTM D5185m     0     <1     2       Phosphorus     ppm     ASTM D5185m     285     312     332       Zinc     ppm     ASTM D5185m     328     331     309       Sulfur     ppm     ASTM D5185m     328     331     309       Sulfur     ppm     ASTM D5185m     >15     <1     <1     1       Sodium     ppm     ASTM D5185m     >20     0     0     0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     3130     3013 </th <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Nolybodenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     <1	Boron	ppm	ASTM D5185m		0	0	0
Manganese   ppm   ASTM D5185m   <1	Barium	ppm	ASTM D5185m		0	2	0
Magnesium     ppm     ASTM D5185m     0     <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium   ppm   ASTM D5185m   43   43   50     Phosphorus   ppm   ASTM D5185m   285   312   332     Zinc   ppm   ASTM D5185m   285   312   332     Sulfur   ppm   ASTM D5185m   328   331   309     Sulfur   ppm   ASTM D5185m   686   801   488     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1   <1   1     Sodium   ppm   ASTM D5185m   >20   0   0   0     PtUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >20   0   1   0     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >1300   3013    50586     Particles >21µm   ASTM D7647   >40   6    8     Particles >21µm <td>Manganese</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>&lt;1</th> <td>0</td> <td>0</td>	Manganese	ppm	ASTM D5185m		<1	0	0
Phosphorus     ppm     ASTM D5185m     285     312     332       Zinc     ppm     ASTM D5185m     328     331     309       Sulfur     ppm     ASTM D5185m     686     801     488       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     <1     <1     1       Sodium     ppm     ASTM D5185m     >15     <1     <1     1       Sodium     ppm     ASTM D5185m     >20     0     0     0       Potassium     ppm     ASTM D7647     32040      50586       Particles >4µm     ASTM D7647     >1300     3013      5398       Particles >6µm     ASTM D7647     >160     37      57       Particles >21µm     ASTM D7647     >10     0      0       Particles >38µm     ASTM D7647     >30     0      0       Particles >71µm     ASTM D7647 </th <td>Magnesium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>&lt;1</td> <td>2</td>	Magnesium	ppm	ASTM D5185m		0	<1	2
Zinc   ppm   ASTM D5185m   328   331   309     Sulfur   ppm   ASTM D5185m   686   801   488     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1	Calcium	ppm	ASTM D5185m		43	43	50
SulfurppmASTM D5185m686801488CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15<1<11SodiumppmASTM D5185m>20000PotassiumppmASTM D5185m>20010FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647>1300301350586Particles >6µmaASTM D7647>1603757Particles >14µmASTM D7647>1008Particles >21µmASTM D7647>300Particles >71µmASTM D7647>300OIl CleanlinessISO 4406 (c)1/1/1422/19/1223/20/13FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Phosphorus	ppm	ASTM D5185m		285	312	332
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15<1<11SodiumppmASTM D5185m>20000PotassiumppmASTM D5185m>20010FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D76473204050586Particles >6µmASTM D7647>130030135398Particles >14µmASTM D7647>1603757Particles >21µmASTM D7647>4068Particles >38µmASTM D7647>300Particles >71µmASTM D7647>300Oil CleanlinessISO 4406 (c)>/17/1422/19/1223/20/13FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Zinc	ppm	ASTM D5185m		328	331	309
Silicon   ppm   ASTM D5185m   >15   <1	Sulfur	ppm	ASTM D5185m		686	801	488
Sodium     ppm     ASTM D5185m     2     0     0       Potassium     ppm     ASTM D5185m     >20     0     1     0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     32040      50586       Particles >6µm     ASTM D7647     >1300     3013      5398       Particles >14µm     ASTM D7647     >160     37      57       Particles >21µm     ASTM D7647     >40     6      8       Particles >38µm     ASTM D7647     >10     0      0       Particles >71µm     ASTM D7647     >3     0      23/20/13       Oil Cleanliness     ISO 4406 (c)     >/17/14     22/19/12      23/20/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium     ppm     ASTM D5185m     >20     0     1     0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     32040      50586       Particles >6µm     ASTM D7647     >1300     3013      5398       Particles >14µm     ASTM D7647     >160     37      57       Particles >21µm     ASTM D7647     >40     6      8       Particles >38µm     ASTM D7647     >10     0      0       Particles >71µm     ASTM D7647     >3     0      23/20/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Silicon	ppm	ASTM D5185m	>15	<1	<1	1
FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   32040    50586     Particles >6µm   ASTM D7647   >1300   3013    50388     Particles >6µm   ASTM D7647   >160   37    57     Particles >14µm   ASTM D7647   >40   6    8     Particles >21µm   ASTM D7647   >10   0    0     Particles >38µm   ASTM D7647   >3   0    0     Particles >71µm   ASTM D7647   >3   0    0     Oil Cleanliness   ISO 4406 (c)   >/17/14   22/19/12    23/20/13     FLUID DEGRADATION   method   limit/base   current   history1   history2	Sodium	ppm	ASTM D5185m		2	0	0
Particles >4µm   ASTM D7647   32040    50586     Particles >6µm   ASTM D7647   >1300   3013    5398     Particles >14µm   ASTM D7647   >160   37    57     Particles >21µm   ASTM D7647   >40   6    8     Particles >21µm   ASTM D7647   >10   0    0     Particles >38µm   ASTM D7647   >3   0    0     Particles >71µm   ASTM D7647   >3   0    0     Oil Cleanliness   ISO 4406 (c)   >/17/14   22/19/12    23/20/13     FLUID DEGRADATION   method   limit/base   current   history1   history2	Potassium	ppm	ASTM D5185m	>20	0	1	0
Particles >6µm   ASTM D7647   >1300   ▲ 3013    ▲ 5398     Particles >14µm   ASTM D7647   >160   37    57     Particles >21µm   ASTM D7647   >40   6    8     Particles >38µm   ASTM D7647   >10   0    0     Particles >38µm   ASTM D7647   >3   0    0     Particles >71µm   ASTM D7647   >3   0    0     Oil Cleanliness   ISO 4406 (c)   >/17/14   22/19/12    ▲ 23/20/13     FLUID DEGRADATION   method   limit/base   current   history1   history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm   ASTM D7647   >160 <b>37</b> 57     Particles >21µm   ASTM D7647   >40 <b>6</b> 8     Particles >38µm   ASTM D7647   >10 <b>0</b> 0     Particles >71µm   ASTM D7647   >3 <b>0</b> 0     Oil Cleanliness   ISO 4406 (c)   >/17/14 <b>22/19/12</b> ▲ 23/20/13     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >4µm		ASTM D7647		32040		50586
Particles >21μm     ASTM D7647     >40     6      8       Particles >38μm     ASTM D7647     >10     0      0       Particles >37μm     ASTM D7647     >3     0      0       Oil Cleanliness     ISO 4406 (c)     >/17/14     22/19/12      23/20/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >6µm		ASTM D7647	>1300	<u> </u>		▲ 5398
Particles >38μm     ASTM D7647     >10     0      0       Particles >71μm     ASTM D7647     >3     0      0       Oil Cleanliness     ISO 4406 (c)     >/17/14     22/19/12      23/20/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >14µm		ASTM D7647	>160	37		57
Particles >71μm     ASTM D7647     >3     0      0       Oil Cleanliness     ISO 4406 (c)     >/17/14     ▲ 22/19/12      ▲ 23/20/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >21µm		ASTM D7647	>40	6		8
Oil Cleanliness   ISO 4406 (c) >/17/14     22/19/12    23/20/13     FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >38µm		ASTM D7647	>10	0		0
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0		0
	Oil Cleanliness		ISO 4406 (c)	>/17/14	<b>A</b> 22/19/12		▲ 23/20/13
Acid Number (AN)     mg KOH/g     ASTM D8045     0.38     0.40     0.38	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	0.40	0.38

# 1000 Apr2017 Feb2018 Nov2018 Aug2019 Maz2020 Aug2021 Sep2022

ISO



Acid Number

Apr27/1

Viscosity @ 40°C

Feb 9/18

ah 9/18

Jov24/18

lov24/1

0.70

(<sup>0.60</sup>) (<sup>b</sup>/HO) 0.50 E 0.40 

0.00

75

70

cSt (40°C)

60

55

Base

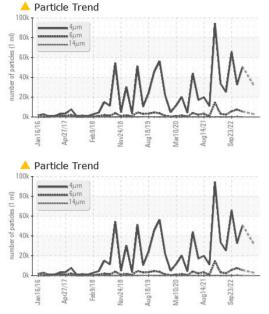
Ab

Jan 16/16

Apr27/1

Janl

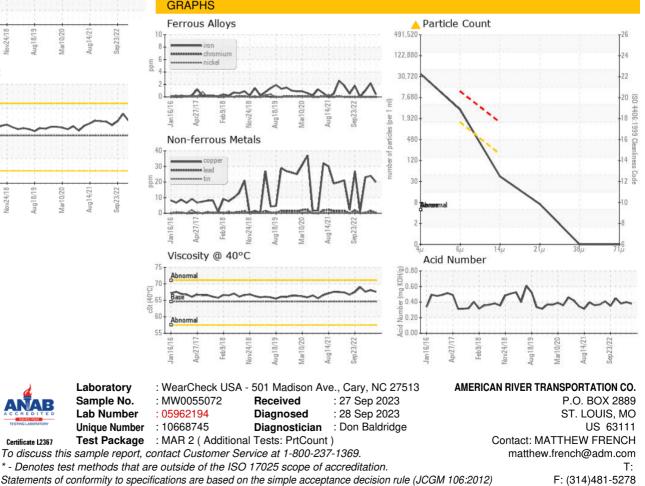
# **OIL ANALYSIS REPORT**



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	🔺 MODER	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	>0.2	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	64.6	67.6	68.1	67.6
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•	MW00:56579	

Bottom





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)