

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### NORMAL

**INDOOR EXPANDER** Component

**Hydraulic System** AW HYDRAULIC OIL ISO 46 (--- QTS)

#### DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### Fluid Condition

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

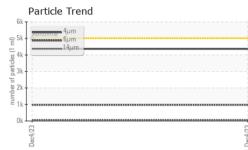
Sample Date     Client Info     04 Dec 2023         Machine Age     mths     Client Info     0         Oil Age     mths     Client Info     0         Oil Changed     Client Info     N/A         Sample Status     Imits     N/A         CONTAMINATION     method     Imit/base     current     history1     history2       Water     WC Method     >0.05     NEG         VEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM 05185m     >20     0         Nickel     ppm     ASTM 05185m     >20     2         Nickel     ppm     ASTM 05185m     >20     2         Nickel     ppm     ASTM 05185m     >20     0         Aumium     ppm     ASTM 05185m     <								
SAMPLE INFORMATION     method     limit/base     current     history1     history2       Sample Number     Client Info     04 Dec 2023         Sample Date     Client Info     0         Oll Age     mths     Client Info     0         Oll Changed     Client Info     N/A          CONTAMINATION     method     imil/base     current     history1     history2       Water     WC Method     >0.05     NEG         VEAR METALS     method     Inmitbase     current     history1     history2       Vater     WC Method     >0.0           Vice     ppm     ASTM 05185m     >20     0         Ketel     ppm     ASTM 05185m     20     0         Silver     ppm     ASTM 05185m     20     0         Contrainuppm     <								
SAMPLE INFORMATION     method     limit/base     current     history1     history2       Sample Number     Client Info     04 Dec 2023         Sample Date     Client Info     0         Oll Age     mths     Client Info     0         Oll Changed     Client Info     N/A          CONTAMINATION     method     imil/base     current     history1     history2       Water     WC Method     >0.05     NEG         VEAR METALS     method     Inmitbase     current     history1     history2       Vater     WC Method     >0.0           Vice     ppm     ASTM 05185m     >20     0         Ketel     ppm     ASTM 05185m     20     0         Silver     ppm     ASTM 05185m     20     0         Contrainuppm     <								
SAMPLE INFORMATION     method     limit/base     current     history1     history2       Sample Number     Client Info     04 Dec 2023         Sample Date     Client Info     0         Oll Age     mths     Client Info     0         Oll Changed     Client Info     N/A          CONTAMINATION     method     imil/base     current     history1     history2       Water     WC Method     >0.05     NEG         VEAR METALS     method     Inmitbase     current     history1     history2       Vater     WC Method     >0.0           Vice     ppm     ASTM 05185m     >20     0         Ketel     ppm     ASTM 05185m     20     0         Silver     ppm     ASTM 05185m     20     0         Contrainuppm     <								
Sample Number     Client Info     WC06027147         Sample Date     Client Info     04 Dec 2023         Machine Age     mths     Client Info     0         Oil Age     mths     Client Info     N/A         Oll Changed     Client Info     N/A         Sample Status     Imtehod     Imt/base     current     history1     history2       Water     WC Method     >0.05     NEG          WEAR METALS     method     Imt/base     current     history1     history2       Iron     ppm     ASTM 05185m     >20     0         Silver     ppm     ASTM 05185m     >20     0         Silver     ppm     ASTM 05185m     >20     0         Atterninum     ppm     ASTM 05185m     >20     0         Atterninum     ppm <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
Sample Date     Client Info     04 Dec 2023         Machine Age     mths     Client Info     0         Oil Age     mths     Client Info     0         Sample Status     Client Info     N/A         CONTAMINATION     method     Imit/base     current     history1     history2       Water     WC Method     >0.05     NEG         WEAR METALS     method     Imit/base     current     history1     history2       Iron     ppm     ASTM 05185m     >20     0         Nickel     ppm     ASTM 05185m     >20     0         Lead     ppm     ASTM 05185m     >20     2         Lead     ppm     ASTM 05185m     >20     0         Vanadium     ppm     ASTM 05185m     >20     0         Vanadium     ppm	SAMPLE INFORM	JATION	method	limit/base	current	history1	history2	
Machine Age   miths   Client Info   0       Oil Age   Miths   Client Info   N/A       Sample Status   Image   Client Info   N/A       CONTAMINATION   method   Imitbase   current   history1   history2     Water   WC Method   >0.05   NEG       WEAR METALS   method   Imitbase   current   history1   history2     Vickel   ppm   ASTM 05185m   >20   0       Nickel   ppm   ASTM 05185m   >20   0       Sliver   ppm   ASTM 05185m   >20   0       Kaminum   ppm   ASTM 05185m   >20   0       Aluminum   ppm   ASTM 05185m   >20   0       Aluminum   ppm   ASTM 05185m   >20   0       Aluminum   ppm   ASTM 05185m   >20   0 <t< td=""><td>Sample Number</td><td></td><td></td><td></td><th></th><td></td><td></td></t<>	Sample Number							
Oli Age     mths     Client Info     N/A         Oil Changed     Client Info     N/A         CONTAMINATION     method     limit/base     current     history1     history2       Water     WC Method     >0.05     NEG         WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >20     0         Chromium     ppm     ASTM D5185m     >20     0         Nickel     ppm     ASTM D5185m     >20     0         Aluminum     ppm     ASTM D5185m     >20     0         Auminum     ppm     ASTM D5185m     >20     0         Auminum     ppm     ASTM D5185m     >20     0         Auminum     ppm     ASTM D5185m     >20     0								
Oli Changed     Client Info     N/A         Sample Status     Image Status	-				-			
Sample Status     NORMAL         CONTAMINATION     method     imit/base     current     history1     history2       Water     WC Method     >0.05     NEG         WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >20     0         Chromium     ppm     ASTM D5185m     >20     0         Nickel     ppm     ASTM D5185m     >20     0         Aluminum     ppm     ASTM D5185m     >20     0         Addimium     ppm     ASTM D5185m     >20     0         Capper     ppm     ASTM D5185m     >20     0         Admium     ppm     ASTM D5185m     >20     0         Admium     ppm     ASTM D5185m     >0         Admium	-	mths			-			
CONTAMINATION     method     limit/base     current     history1     history2       Water     WC Method     >0.05     NEG         WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5165m     >20     0         Chromium     ppm     ASTM D5165m     >20     0         Nickel     ppm     ASTM D5165m     >20     0         Aluminum     ppm     ASTM D5165m     >20     0         Auminum     ppm     ASTM D5165m     >20     0         Auminum     ppm     ASTM D5165m     >20     0         Auminum     ppm     ASTM D5165m     >20     0         AstM D5165m     >20     0          Capper     ppm     ASTM D5165m     0	•		Client Info					
Water     WC Method     >0.05     NEG         WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >20     0         Nickel     ppm     ASTM D5185m     >20     0         Nickel     ppm     ASTM D5185m     0          Silver     ppm     ASTM D5185m     20     2         Lead     ppm     ASTM D5185m     >20     0         Copper     ppm     ASTM D5185m     >20     4         Vanadium     pm     ASTM D5185m     >20     0         ADDITIVES     method     Imit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Magnasium     ppm     ASTM D5185m     5     1    <					NORMAL			
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >20     0         Nickel     ppm     ASTM D5185m     >20     0         Nickel     ppm     ASTM D5185m     >20     0         Silver     ppm     ASTM D5185m     0          Aduminum     ppm     ASTM D5185m     >20     2         Lead     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     >20     0         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Magnasium     ppm     ASTM D5185m     25 <td< th=""><th>CONTAMINATIO</th><th>N</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	CONTAMINATIO	N	method	limit/base	current	history1	history2	
Iron     ppm     ASTM D5185m     >20     Q         Nickel     ppm     ASTM D5185m     >20     <1         Nickel     ppm     ASTM D5185m     Q     Q         Silver     ppm     ASTM D5185m     Q     Q         Aduminum     ppm     ASTM D5185m     >20     Q         Lead     ppm     ASTM D5185m     >20     Q         Copper     ppm     ASTM D5185m     >20     Q         Vanadium     ppm     ASTM D5185m     >20     Q         Cadmium     ppm     ASTM D5185m     >20     Q         ADDITVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     <1         Maganese     ppm     ASTM D5185m     0	Water		WC Method	>0.05	NEG			
Chromium     ppm     ASTM D5185m     >20     <1         Nickel     ppm     ASTM D5185m     >20     0         Silver     ppm     ASTM D5185m     0         Auminum     ppm     ASTM D5185m     20     2         Lead     ppm     ASTM D5185m     >20     0         Copper     ppm     ASTM D5185m     >20     0         Cadmium     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     0          ADDITIVES     method     imit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Magnaese     ppm     ASTM D5185m     25     15         Magnesium     ppm     ASTM D5185m     200     44 <td< td=""><td>WEAR METALS</td><td></td><td>method</td><td>limit/base</td><th>current</th><td>history1</td><td>history2</td></td<>	WEAR METALS		method	limit/base	current	history1	history2	
Nickel     ppm     ASTM D5185m     >20     0         Titanium     ppm     ASTM D5185m     0         Silver     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     >20     2         Lead     ppm     ASTM D5185m     >20     4         Copper     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     >20     0         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Malganesium     ppm     ASTM D5185m     5     0         Galcium     ppm     ASTM D5185m     25     15         Galcium     ppm     ASTM D5185m     200     44	Iron	ppm	ASTM D5185m	>20	0			
Titanium     ppm     ASTM D5185m     0         Silver     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     >20     2         Lead     ppm     ASTM D5185m     >20     0         Copper     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     20     0         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Magnesium     ppm     ASTM D5185m     5     0         Magnesium     ppm     ASTM D5185m     5     0         Calcium     ppm     ASTM D5185m     200     44         Magnesium     ppm     ASTM D5185m     300     280	Chromium	ppm	ASTM D5185m	>20	<1			
Silver     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     >20     2         Lead     ppm     ASTM D5185m     >20     0         Copper     ppm     ASTM D5185m     >20     4         Vanadium     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     >20     0         Cadmium     ppm     ASTM D5185m     0          ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Magnesium     ppm     ASTM D5185m     5     <1	Nickel	ppm	ASTM D5185m	>20	0			
Aluminum     ppm     ASTM D5185m     >20     2         Lead     ppm     ASTM D5185m     >20     0         Copper     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     >20     0         Admium     ppm     ASTM D5185m     >20     0         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Molybdenum     ppm     ASTM D5185m     5     1         Manganese     ppm     ASTM D5185m     25     15         Calcium     ppm     ASTM D5185m     200     44         Manganese     ppm     ASTM D5185m     2500     1168         Sulfur     ppm     ASTM D5185m	Titanium	ppm	ASTM D5185m		0			
Lead     ppm     ASTM D5185m     >20     0         Copper     ppm     ASTM D5185m     >20     4         Tin     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     0         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Molybdenum     ppm     ASTM D5185m     5     -1         Magnesium     ppm     ASTM D5185m     25     15         Calcium     ppm     ASTM D5185m     200     44         Sulfur     ppm     ASTM D5185m     300     280         Sulfur     ppm     ASTM D5185m     2500     1168         Sulfur     ppm     ASTM D5185m     >15	Silver	ppm	ASTM D5185m		-			
Copper     ppm     ASTM D5185m     >20     4         Tin     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     0         Cadmium     ppm     ASTM D5185m     0         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Magnaese     ppm     ASTM D5185m     5     <1		ppm						
Tin     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     0         Cadmium     ppm     ASTM D5185m     0         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Barium     ppm     ASTM D5185m     5     <1					-			
Vanadium     ppm     ASTM D5185m     0         Cadmium     ppm     ASTM D5185m     0         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Magnese     ppm     ASTM D5185m     5     0         Magnesium     ppm     ASTM D5185m     25     15         Calcium     ppm     ASTM D5185m     25     15         Magnesium     ppm     ASTM D5185m     200     44         Calcium     ppm     ASTM D5185m     200     441         Sulfur     ppm     ASTM D5185m     2500     1168         Sulfur     ppm     ASTM D5185m     >15     O         Sulfur     ppm     ASTM D5185m     >20     <1								
Cadmium     ppm     ASTM D5185m     0         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Barium     ppm     ASTM D5185m     5     0         Molybdenum     ppm     ASTM D5185m     5     0         Manganese     ppm     ASTM D5185m     25     15         Calcium     ppm     ASTM D5185m     2500     44         Calcium     ppm     ASTM D5185m     200     44         Calcium     ppm     ASTM D5185m     200     1168         Sulfur     ppm     ASTM D5185m     2500     1168         Sodium     ppm     ASTM D5185m     >15     O         EUID CLEANLINESS     method     limit/base <t< td=""><td></td><td></td><td></td><td>&gt;20</td><th>-</th><td></td><td></td></t<>				>20	-			
ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     5     0         Barium     ppm     ASTM D5185m     5     0         Molybdenum     ppm     ASTM D5185m     5     <1					-			
Boron     ppm     ASTM D5185m     5     0         Barium     ppm     ASTM D5185m     5     0         Molybdenum     ppm     ASTM D5185m     5     <1         Manganese     ppm     ASTM D5185m     25     15         Magnesium     ppm     ASTM D5185m     200     44         Calcium     ppm     ASTM D5185m     300     280         Zinc     ppm     ASTM D5185m     370     341         Sulfur     ppm     ASTM D5185m     2500     1168         Sulfur     ppm     ASTM D5185m     2500     1168         Sulfur     ppm     ASTM D5185m     >15     0         Sodium     ppm     ASTM D5185m     >20     <1         Paticles >4µm     ASTM D7647 <td< th=""><th>Cadmium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th></th><th></th></td<>	Cadmium	ppm	ASTM D5185m		0			
Barium     ppm     ASTM D5185m     5     0         Molybdenum     ppm     ASTM D5185m     5     <1         Manganese     ppm     ASTM D5185m     25     15         Magnesium     ppm     ASTM D5185m     200     44         Calcium     ppm     ASTM D5185m     200     44         Phosphorus     ppm     ASTM D5185m     200     444         Zinc     ppm     ASTM D5185m     370     341         Sulfur     ppm     ASTM D5185m     2500     1168         CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0         Potassium     ppm     ASTM D5185m     >20     <1    FLUID CLEANLINESS     method     li	ADDITIVES		method	limit/base	current	history1	history2	
Molybdenum     ppm     ASTM D5185m     5     <1         Manganese     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     25     15         Calcium     ppm     ASTM D5185m     200     44         Calcium     ppm     ASTM D5185m     200     44         Phosphorus     ppm     ASTM D5185m     200     441         Zinc     ppm     ASTM D5185m     370     341         Sulfur     ppm     ASTM D5185m     2500     1168         Solicon     ppm     ASTM D5185m     >15     0         Potassium     ppm     ASTM D5185m     >20     <1	Boron	ppm		5	0			
Manganese     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     25     15         Calcium     ppm     ASTM D5185m     200     44         Phosphorus     ppm     ASTM D5185m     300     280         Zinc     ppm     ASTM D5185m     370     341         Sulfur     ppm     ASTM D5185m     370     341         Sulfur     ppm     ASTM D5185m     2500     1168         CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0         Potassium     ppm     ASTM D5185m     >20     <1	Barium	ppm	ASTM D5185m	5	0			
Magnesium     ppm     ASTM D5185m     25     15        Calcium     ppm     ASTM D5185m     200     44         Phosphorus     ppm     ASTM D5185m     300     280         Zinc     ppm     ASTM D5185m     370     341         Sulfur     ppm     ASTM D5185m     2500     1168         CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0         Sodium     ppm     ASTM D5185m     >20     <1	Molybdenum	ppm	ASTM D5185m	5	<1			
Calcium     ppm     ASTM D5185m     200     44         Phosphorus     ppm     ASTM D5185m     300     280         Zinc     ppm     ASTM D5185m     370     341         Sulfur     ppm     ASTM D5185m     2500     1168         CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0         Sodium     ppm     ASTM D5185m     >20     <1	-	ppm			-			
Phosphorus     ppm     ASTM D5185m     300     280         Zinc     ppm     ASTM D5185m     370     341         Sulfur     ppm     ASTM D5185m     2500     1168         CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0         Sodium     ppm     ASTM D5185m     >15     0         Sodium     ppm     ASTM D5185m     >20     <1	-							
Zinc     ppm     ASTM D5185m     370     341         Sulfur     ppm     ASTM D5185m     2500     1168         CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0         Sodium     ppm     ASTM D5185m     >15     0         Potassium     ppm     ASTM D5185m     >20     <1		ppm						
SulfurppmASTM D5185m25001168CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>150SodiumppmASTM D5185m>20<1								
CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     0         Sodium     ppm     ASTM D5185m     >15     0         Potassium     ppm     ASTM D5185m     >20     <1								
Silicon     ppm     ASTM D5185m     >15     0         Sodium     ppm     ASTM D5185m     0          Potassium     ppm     ASTM D5185m     >20     <1					1168			
Sodium     ppm     ASTM D5185m     0         Potassium     ppm     ASTM D5185m     >20     <1	CONTAMINANTS	3	method	limit/base	current	history1	history2	
Potassium     ppm     ASTM D5185m     >20     <1         FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >5000     4365         Particles >6µm     ASTM D7647     >1300     976         Particles >6µm     ASTM D7647     >160     66         Particles >14µm     ASTM D7647     >40     14         Particles >21µm     ASTM D7647     >10     0         Particles >38µm     ASTM D7647     >3     0         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >19/17/14     19/17/13         FLUID DEGRADATION     method     limit/base     current     history1     history2				>15				
FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >5000   4365       Particles >6µm   ASTM D7647   >1300   976       Particles >6µm   ASTM D7647   >160   66       Particles >14µm   ASTM D7647   >160   66       Particles >21µm   ASTM D7647   >40   14       Particles >38µm   ASTM D7647   >10   0       Particles >38µm   ASTM D7647   >3   0       Particles >71µm   ASTM D7647   >3   0       Oil Cleanliness   ISO 4406 (c)   >19/17/14   19/17/13       FLUID DEGRADATION   method   limit/base   current   history1   history2		ppm			-			
Particles >4μm   ASTM D7647   >5000   4365       Particles >6μm   ASTM D7647   >1300   976       Particles >14μm   ASTM D7647   >160   66       Particles >14μm   ASTM D7647   >40   14       Particles >21μm   ASTM D7647   >40   14       Particles >38μm   ASTM D7647   >10   0       Particles >71μm   ASTM D7647   >3   0       Oil Cleanliness   ISO 4406 (c)   >19/17/14   19/17/13       FLUID DEGRADATION   method   limit/base   current   history1   history2			ASTM D5185m	>20	<1			
Particles >6μm     ASTM D7647     >1300     976         Particles >14μm     ASTM D7647     >160     66         Particles >14μm     ASTM D7647     >40     14         Particles >21μm     ASTM D7647     >40     14         Particles >38μm     ASTM D7647     >10     0         Particles >38μm     ASTM D7647     >3     0         Particles >71μm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >19/17/14     19/17/13         FLUID DEGRADATION     method     limit/base     current     history1     history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >14µm   ASTM D7647   >160   66       Particles >21µm   ASTM D7647   >40   14       Particles >38µm   ASTM D7647   >10   0       Particles >38µm   ASTM D7647   >3   0       Particles >71µm   ASTM D7647   >3   0       Oil Cleanliness   ISO 4406 (c)   >19/17/14   19/17/13       FLUID DEGRADATION   method   limit/base   current   history1   history2	Particles >4µm		ASTM D7647	>5000	4365			
Particles >21μm     ASTM D7647     >40     14         Particles >38μm     ASTM D7647     >10     0         Particles >38μm     ASTM D7647     >3     0         Particles >71μm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >19/17/14     19/17/13         FLUID DEGRADATION     method     limit/base     current     history1     history2			ASTM D7647	>1300	976			
Particles >38μm     ASTM D7647     >10     0         Particles >71μm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >19/17/14     19/17/13         FLUID DEGRADATION     method     limit/base     current     history1     history2								
Particles >71μm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >19/17/14     19/17/13         FLUID DEGRADATION     method     limit/base     current     history1     history2								
Oil Cleanliness     ISO 4406 (c) >19/17/14     19/17/13         FLUID DEGRADATION     method     limit/base     current     history1     history2								
FLUID DEGRADATION method limit/base current history1 history2								
			ISO 4406 (c)	>19/17/14	19/17/13			
Acid Number (AN) mg KOH/g ASTM D8045 0.57 0.23	FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.23			

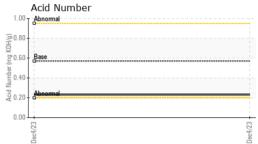
Report Id: TRAPAN [WUSCAR] 06027147 (Generated: 12/07/2023 18:58:51) Rev: 1

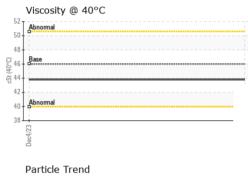
Contact/Location: RON DURHAM - TRAPAN



# **OIL ANALYSIS REPORT**









	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
Dec4/23	Appearance	scalar	*Visual	NORML	NORML		
Dei	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	46	43.8		
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Dec4/23	Color				·	no image	no image
	Bottom					no image	no image
	GRAPHS						
	Ferrous Alloys			491,52	Particle Count	:	т2
	8 - iron						
	E. 6 - mickel			122,88	Severe		-2
	<b>1</b>			30,72	0		-2
	2-			7,68	Abnormal		+2
	Dec4/23						
	Dec					•	+1
	Non-ferrous Meta	als		Dec4/23 15.1 ml) 15.4 particles (per 1 ml) 15.4 particles (per 1 ml)			+2
	8 copper			ja 12	0-	1	-1
	= 6 - tin			un and a second se			
*****				3	0-		-1
	2				8 -		-1
	0			en	2-		
	Dec4/23			Dec4/23	2-		
					0 4µ 6µ	14µ 21µ	38µ 71µ
	Viscosity @ 40°C				Acid Number	1 ,	1
	Abnormal			(B) H 0.0	Abnormal		
	50+			90.8 20.0	Base		
	£ 45			(0) HON WHON 20 C F WILL CONTRACT OF CONTRACT (0) Page 10 C F V C	0		
	40 - Abnormal						
	35						
	Dec4/23			Dec4/23	Dec4/23		
oratory ple No. Number Je Number	: WearCheck USA - : WC06027147 : 06027147 : 10776938	501 Madi Receive Diagnos Diagnos	d : 06 ed : 07	_			TRAI ERDEEN LOO NAMA CITY, US 324

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)

Certificate L2367

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