

## **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Machine Id **RESERVOIR** Component

Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

### 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your 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.

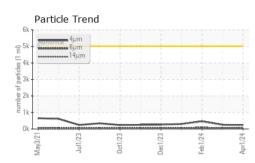
Sample Number         Client Info         WC0743404         WC0743407         WC0743407         UC0743408           Sample Date         Client Info         0         0         0         0           Machine Age         hrs         Client Info         0         0         0           Oll Age         hrs         Client Info         0         0         0           Oll Age         hrs         Client Info         N/A         N/A         N/A           Sample Status         Imethod         Imit/base         current         history1         history2           Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM 051555         >20         <1         0         0           Trainum         ppm         ASTM 051555         >20         2         0         0         0           Copper         ppm         ASTM 051555         >20         2         1         2         1           Vandium         ppm         ASTM 051555         >20         2         1         1         0 <th>SAMPLE INFORM</th> <th>1ATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Date         Client Info         01 Apr 2024         01 Mar 2024         01 Feb 2024           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         N/A           Sample Status         Imit/base         current         Pistory1         Nistory2           Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         limi/base         current         Pistory1         Pistory2           Iron         ppm         ASTM 05185n         >20         <1         0         0           Chromium         ppm         ASTM 05185n         >20         <1         0         <1           Silver         ppm         ASTM 05185n         >20         2         0         0         <1           Auminum         ppm         ASTM 05185n         >20         2         1         2         <1           Auminum         ppm         ASTM 05185n         >20         2         1         2         <1 <tr< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>WC0743404</th><th>WC0743407</th><th>WC0743408</th></tr<>	Sample Number		Client Info		WC0743404	WC0743407	WC0743408
Machine Age         hrs         Client Info         0         0         0         0           Oil Age         hrs         Client Info         0         0         0           Oil Age         Client Info         N/A         N/A         N/A         N/A           Sample Status         Imit/base         current         History1         history2           Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM 05165         >20         <1         0         0           Nickel         ppm         ASTM 05165         >20         2         0         0           Silver         ppm         ASTM 05165         >20         0         0         0           Cadmium         ppm         ASTM 05165         >20         2         1         2         1           Cadmium         ppm         ASTM 05165         >20         2         1         0         -1           Cadmium         ppm         ASTM 05165         0         0         0         0	Sample Date		Client Info		01 Apr 2024	01 Mar 2024	01 Feb 2024
Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         Imit/base         current         history1         history2           Water         WC Method         >0.05         NEG         NEG         NEG           WAter         WC Method         >0.05         NEG         NEG         NEG           Contromium         ppm         ASTM D5185m         >20         <1         0         0           Chromium         ppm         ASTM D5185m         >20         0         0         0           Silver         ppm         ASTM D5185m         >20         0         0         0           Silver         ppm         ASTM D5185m         >20         0         0         0           Astm D5185m         >20         2         1         2         1         2           Tin         ppm         ASTM D5185m         >20         0         0         0           Cadmium         ppm         ASTM D5185m         20         1         0         1           Cadmium         ppm		hrs	Client Info		•	0	0
Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         I         Image Status         Image Status         Nethod         Nime Norman Status         NORMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         imit/base         current         History1         History2           Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         imit/base         current         History1         History2           Iron         ppm         ASTM D5185m         >20         <1	U	hrs	Client Info			0	0
CONTAMINATION         method         imit/base         current         history1         history2           Water         WC Method         >0.05         NEG         NEG         NEG           Water         WC Method         >0.055         NEG         NEG         NEG           WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1         0         0           Chromium         ppm         ASTM D5185m         >20         2         0         0           Nickel         ppm         ASTM D5185m         >20         2         0         0           Aluminum         ppm         ASTM D5185m         >20         2         1         2           Vanadium         ppm         ASTM D5185m         >20         2         1         2           Vanadium         ppm         ASTM D5185m         >20         2         1         2           Vanadium         ppm         ASTM D5185m         5         0         0         0           ASTM D5185m         5         0         0         0         0         0	-		Client Info		N/A	N/A	N/A
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1         0         0           Chromium         ppm         ASTM D5185m         >20         0         0         0           Nickel         ppm         ASTM D5185m         >20         2         0         0           Silver         ppm         ASTM D5185m         >20         2         0         0           Astm D5185m         >20         2         0         0         0           Copper         ppm         ASTM D5185m         >20         2         1         2           Tin         ppm         ASTM D5185m         >20         2         1         0         <1           Vanadium         ppm         ASTM D5185m         >0         0         0         0           Rorn         ppm         ASTM D5185m         5         0         0         0         0<	Ũ				NORMAL	NORMAL	NORMAL
Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         limil/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1         0         0           Nickel         ppm         ASTM D5185m         >20         o         0         0           Nickel         ppm         ASTM D5185m         o         0         0         0           Silver         ppm         ASTM D5185m         20         2         0         0         0           Aluminum         ppm         ASTM D5185m         >20         2         1         2         1         2         1	· ·	J	method	limit/base	current	history1	history2
Iron         ppm         ASTM D5185m         >20         <1					NEG		
Chromium         ppm         ASTM 05185m         >20         <1	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         >20         <1	Iron	mqq	ASTM D5185m	>20	<1	0	0
Nickel         ppm         ASTM D5185m         >20         0         0         0           Titanium         ppm         ASTM D5185m         0         0         0           Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >20         2         0         0           Copper         ppm         ASTM D5185m         >20         2         1         2           Tin         ppm         ASTM D5185m         >20         2         1         2           Cadmium         ppm         ASTM D5185m         >20         <1         0         <1           Vanadium         ppm         ASTM D5185m         0         0         0         0           ACdmium         ppm         ASTM D5185m         5         0         0         0           Barium         ppm         ASTM D5185m         5         0         0         0           Manganesium         ppm         ASTM D5185m         5         0         0         0           Manganesium         ppm         ASTM D5185m         20         50         30         42           P	Chromium		ASTM D5185m	>20	<1	0	0
Titanium         ppm         ASTM D5185m         <1	Nickel		ASTM D5185m	>20	0	0	0
Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >20         2         0         0           Lead         ppm         ASTM D5185m         >20         2         1         2           Copper         ppm         ASTM D5185m         >20         2         1         2           Tin         ppm         ASTM D5185m         >20         <1         0         <1           Cadmium         ppm         ASTM D5185m         >20         <1         0         <1           Cadmium         ppm         ASTM D5185m         <0         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         5         0         0         0           Magnesium         ppm         ASTM D5185m         5         0         0         0           Magnesium         ppm         ASTM D5185m         25         <1         0         13           Calcium         ppm         ASTM D5185m         200         50         30         42	Titanium		ASTM D5185m			0	<1
Aluminum         ppm         ASTM D5185m         >20         2         0         0           Lead         ppm         ASTM D5185m         >20         2         1         2           Tin         ppm         ASTM D5185m         >20         2         1         2           Tin         ppm         ASTM D5185m         >20         2         1         2           Vanadium         ppm         ASTM D5185m         >20         <1         0         <1           Cadmium         ppm         ASTM D5185m         >20         <1         0         <1           Cadmium         ppm         ASTM D5185m         <0         0         0         0           ADDITVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         5         0         0         0           Molybdenum         ppm         ASTM D5185m         25         <1         0         13           Calcium         ppm         ASTM D5185m         200         50         30         42           Phosphorus         ppm         ASTM D5185m         2500         2219         1713							
Lead         ppm         ASTM D5185m         >20         0         0         0           Copper         ppm         ASTM D5185m         >20         2         1         2           Tin         ppm         ASTM D5185m         >20         <1         0         <1           Vanadium         ppm         ASTM D5185m         >20         <1         0         <1           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         5         0         0         0           Magnagnese         ppm         ASTM D5185m         5         0         0         0           Magnesium         ppm         ASTM D5185m         25         <1         0         13           Calcium         ppm         ASTM D5185m         200         50         30         42           Phosphorus         ppm         ASTM D5185m         250         219         1713         1779           CONTAMINANTS         method         imit/base         current         history1 <th></th> <th></th> <th></th> <th>&gt;20</th> <th></th> <th></th> <th></th>				>20			
Copper         ppm         ASTM D5185m         >20         2         1         2           Tin         ppm         ASTM D5185m         >20         <1         0         <1           Vanadium         ppm         ASTM D5185m         >20         <1         0         <1           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         5         0         0         0           Magnesium         ppm         ASTM D5185m         5         0         0         0           Calcium         ppm         ASTM D5185m         20         50         30         42           Phosphorus         ppm         ASTM D5185m         200         50         30         42           Sulfur         ppm         ASTM D5185m         200         50         30         42           Phosphorus         ppm         ASTM D5185m         200         219         1713         1779           CONTAMINANTS         method         limit/base         current         histo							
Tin         ppm         ASTM D5185m         >20         <1							
Vanadium         ppm         ASTM D5185m         <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         0           Molybdenum         ppm         ASTM D5185m         5         0         0         0           Magnesium         ppm         ASTM D5185m         25         <1				200			
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         5         0         0         0           Barium         ppm         ASTM D5185m         5         0         0         0           Molybdenum         ppm         ASTM D5185m         5         0         0         0           Manganese         ppm         ASTM D5185m         25         <1         0         13           Calcium         ppm         ASTM D5185m         25         <1         0         13           Calcium         ppm         ASTM D5185m         200         50         30         42           Phosphorus         ppm         ASTM D5185m         200         50         30         42           Sulfur         ppm         ASTM D5185m         300         311         212         272           Sulfur         ppm         ASTM D5185m         370         403         292         347           Sulfur         ppm         ASTM D5185m         2500         2219         1713         1779           CONTAMINANTS         method         imit/base         current							
Boron         ppm         ASTM D5185m         5         0         0         0           Barium         ppm         ASTM D5185m         5         0         0         0           Molybdenum         ppm         ASTM D5185m         5         0         0         0           Manganese         ppm         ASTM D5185m         2         1         0         0         0           Magnesium         ppm         ASTM D5185m         25         <1         0         13           Calcium         ppm         ASTM D5185m         200         50         30.0         42           Phosphorus         ppm         ASTM D5185m         300         311         212         272           Zinc         ppm         ASTM D5185m         370         403         292         347           Sulfur         ppm         ASTM D5185m         2500         2219         1713         1779           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >14         11         12           Sodium         ppm         ASTM D5185m         >20         <1 </th <th></th> <th>pp</th> <th></th> <th></th> <th></th> <th></th> <th>-</th>		pp					-
Barium         ppm         ASTM D5185m         5         0         0         0           Molybdenum         ppm         ASTM D5185m         5         0         0         0           Manganese         ppm         ASTM D5185m         25         <1         0         13           Calcium         ppm         ASTM D5185m         25         <1         0         13           Calcium         ppm         ASTM D5185m         200         50         30         42           Phosphorus         ppm         ASTM D5185m         200         50         30         42           Zinc         ppm         ASTM D5185m         300         311         212         272           Zinc         ppm         ASTM D5185m         370         403         292         347           Sulfur         ppm         ASTM D5185m         2500         2219         1713         1779           CONTAMINANTS         method         imit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1         0         <1           FLUID CLEANLINESS         method         imit/base         current <th>ADDITIVES</th> <th></th> <th></th> <th>limit/base</th> <th></th> <th></th> <th></th>	ADDITIVES			limit/base			
Molybdenum         ppm         ASTM D5185m         5         0         0         0           Manganese         ppm         ASTM D5185m         25         <1	Boron	ppm					
Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         25         <1         0         13           Calcium         ppm         ASTM D5185m         200         50         30         42           Phosphorus         ppm         ASTM D5185m         300         311         212         272           Zinc         ppm         ASTM D5185m         370         403         292         347           Sulfur         ppm         ASTM D5185m         2500         2219         1713         1779           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >20         <1         0         <1           FLUID CLEANLINES         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         238         252         465           Particles >4µm         ASTM D7647         >130         52	Barium	ppm	ASTM D5185m	5	0	0	0
Magnesium         ppm         ASTM D5185m         25         <1	Molybdenum	ppm		5	-	0	
Calcium         ppm         ASTM D5185m         200         50         30         42           Phosphorus         ppm         ASTM D5185m         300         311         212         272           Zinc         ppm         ASTM D5185m         370         403         292         347           Sulfur         ppm         ASTM D5185m         2500         2219         1713         1779           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >20         <1         0         <1           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         238         252         465           Particles >6µm         ASTM D7647         >160         5         6         6           Particles >21µm         ASTM D7647         >10         0         0 <th>Manganese</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Manganese	ppm	ASTM D5185m		0	0	0
Phosphorus         ppm         ASTM D5185m         300         311         212         272           Zinc         ppm         ASTM D5185m         370         403         292         347           Sulfur         ppm         ASTM D5185m         370         403         292         347           Sulfur         ppm         ASTM D5185m         2500         2219         1713         1779           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >20         <1         0         <1           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         238         252         465           Particles >6µm         ASTM D7647         >1300         52         52         79           Particles >14µm         ASTM D7647         >100         0         0         0           Particles >38µm         ASTM D7647         3         0         0	Magnesium	ppm	ASTM D5185m	25	<1	0	
Zinc         ppm         ASTM D5185m         370         403         292         347           Sulfur         ppm         ASTM D5185m         2500         2219         1713         1779           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >20         <1         0         <1           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         238         252         465           Particles >6µm         ASTM D7647         >100         52         52         79           Particles >14µm         ASTM D7647         >40         2         2         3           Particles >38µm         ASTM D7647         3         0         0         0	Calcium	ppm	ASTM D5185m	200	50	30	42
Sulfur         ppm         ASTM D5185m         2500         2219         1713         1779           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >20         <1         0         <1           Potassium         ppm         ASTM D5185m         >20         <1	Phosphorus	ppm	ASTM D5185m	300	311	212	272
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         >20         <1         0         <1           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         238         252         465           Particles >6µm         ASTM D7647         >1300         52         52         79           Particles >6µm         ASTM D7647         >160         5         6         6           Particles >14µm         ASTM D7647         >10         0         0         0           Particles >38µm         ASTM D7647         3         0         0         0           Particles >71µm         ASTM D7647         3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         15/13/10         15/13/10         16/13/10 <t< th=""><th>Zinc</th><th>ppm</th><th>ASTM D5185m</th><th>370</th><th>403</th><th>292</th><th>347</th></t<>	Zinc	ppm	ASTM D5185m	370	403	292	347
Silicon         ppm         ASTM D5185m         >15         14         11         12           Sodium         ppm         ASTM D5185m         3         2         6           Potassium         ppm         ASTM D5185m         >20         <1	Sulfur	ppm	ASTM D5185m	2500	2219	1713	1779
Sodium         ppm         ASTM D5185m         3         2         6           Potassium         ppm         ASTM D5185m<>20         <1         0         <1           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         238         252         465           Particles >6µm         ASTM D7647         >1300         52         52         79           Particles >6µm         ASTM D7647         >160         5         6         6           Particles >14µm         ASTM D7647         >40         2         2         3           Particles >21µm         ASTM D7647         >10         0         0         0           Particles >38µm         ASTM D7647         >3         0         0         0           Particles >71µm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         15/13/10         15/13/10         16/13/10           FLUID DEGRADATION         method         limit/base         current         history1         history2	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         <1	Silicon	ppm	ASTM D5185m	>15	14	11	12
FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         238         252         465           Particles >6µm         ASTM D7647         >1300         52         52         79           Particles >14µm         ASTM D7647         >160         5         6         6           Particles >14µm         ASTM D7647         >160         5         6         6           Particles >21µm         ASTM D7647         >40         2         2         3           Particles >38µm         ASTM D7647         >10         0         0         0           Particles >71µm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         15/13/10         15/13/10         16/13/10           FLUID DEGRADATION         method         limit/base         current         history1         history2	Sodium	ppm	ASTM D5185m		3	2	6
Particles >4μm       ASTM D7647       >5000       238       252       465         Particles >6μm       ASTM D7647       >1300       52       52       79         Particles >14μm       ASTM D7647       >160       5       6       6         Particles >21μm       ASTM D7647       >40       2       2       3         Particles >21μm       ASTM D7647       >40       2       2       3         Particles >38μm       ASTM D7647       >10       0       0       0         Particles >71μm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >19/17/14       15/13/10       15/13/10       16/13/10         FLUID DEGRADATION       method       limit/base       current       history1       history2	Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Particles >6μm         ASTM D7647         >1300         52         52         79           Particles >14μm         ASTM D7647         >160         5         6         6           Particles >21μm         ASTM D7647         >40         2         2         3           Particles >21μm         ASTM D7647         >40         2         0         0           Particles >38μm         ASTM D7647         >10         0         0         0           Particles >38μm         ASTM D7647         >3         0         0         0           Particles >71μm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         15/13/10         15/13/10         16/13/10           FLUID DEGRADATION         method         limit/base         current         history1         history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14µm       ASTM D7647       >160       5       6       6         Particles >21µm       ASTM D7647       >40       2       2       3         Particles >38µm       ASTM D7647       >10       0       0       0         Particles >38µm       ASTM D7647       >3       0       0       0         Particles >71µm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >19/17/14       15/13/10       15/13/10       16/13/10         FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >4µm		ASTM D7647	>5000	238	252	465
Particles >21μm         ASTM D7647         >40         2         2         3           Particles >38μm         ASTM D7647         >10         0         0         0           Particles >38μm         ASTM D7647         >10         0         0         0           Particles >71μm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         15/13/10         15/13/10         16/13/10           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >6µm		ASTM D7647	>1300	52	52	79
Particles >38μm         ASTM D7647         >10         0         0         0           Particles >71μm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         15/13/10         15/13/10         16/13/10           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>160	5	6	6
Particles >71μm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         15/13/10         15/13/10         16/13/10           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>40	2	2	3
Oil Cleanliness         ISO 4406 (c)         >19/17/14         15/13/10         15/13/10         16/13/10           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >38µm		ASTM D7647	>10	0	0	0
FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10	15/13/10	16/13/10
Acid Number (AN) mg KOH/g ASTM D8045 0.57 0.26 0.26 0.24	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.26	0.26	0.24

Report Id: HAWCLA [WUSCAR] 06141283 (Generated: 04/09/2024 10:36:58) Rev: 1

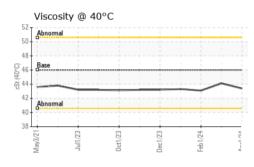
Contact/Location: KIMBERLY NELSEN - HAWCLA

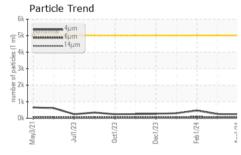


# **OIL ANALYSIS REPORT**



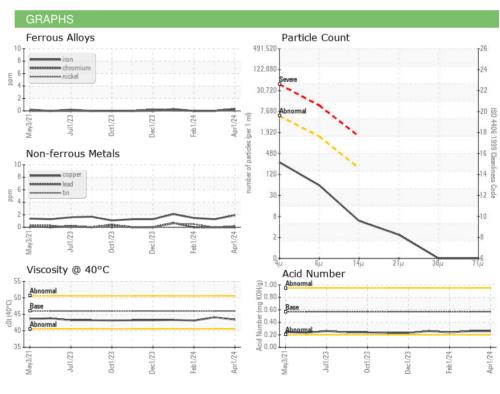






Certificate 12367

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	46	43.4	44.1	43.1
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom				•		



: 08 Apr 2024

: 09 Apr 2024

: 09 Apr 2024 - Wes Davis



 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 k.nelsel

 • - 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: HAWCLA [WUSCAR] 06141283 (Generated: 04/09/2024 10:36:58) Rev: 1
 Contact/Location: KIMBERI

: WC0743404

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested

Laboratory

Sample No.

Lab Number : 06141283

Unique Number : 10966091

Test Package : IND 2

Contact/Location: KIMBERLY NELSEN - HAWCLA

HAWE HYDRAULICS PORTLAND

Contact: KIMBERLY NELSEN

k.nelsen@hawehydraulics.com

12990 SE HWY 212

CLACKAMAS, OR

T: (503)222-3295

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F:

US 97015