

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### Machine Id HYDRAULIC PRESS MILNOR PRESS MP1640CL

Hydraulic System

**MEGAFLOW AW 68 (63 GAL)** 

#### DIAGNOSIS

#### A Recommendation

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

#### Wear

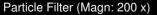
All component wear rates are normal.

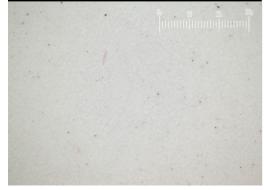
#### Contamination

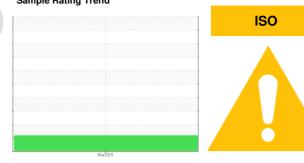
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

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







Water         WC Method         >0.05         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1             Nickel         ppm         ASTM D5185m         >20         0             Silver         ppm         ASTM D5185m         20         0             Aluminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         4             Vanadium         ppm         ASTM D5185m         0             Qadium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0 </th <th>SAMPLE INFORM</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machtine Age         hrs         Client Info         0             Oil Age         hrs         Client Info         N/A             Sample Status         I         Imit/base         current         history1         history2           Water         WC Method         >0.05         NEG             WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM 05185m         >20         <1	Sample Number		Client Info		PH0001445		
Oil Age         hrs         Client Info         12200             Oil Changed         Client Info         NA             Sample Status         Client Info         NA             CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.05         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185m         >20         <1			Client Info		29 Mar 2024		
Oil Changed Sample Status         Client Info         N/A             CONTAMINATION         method         limit/base         current         history1         Mistory2           Water         WC Method         >.0.5         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185n         >20         <1              MetAet         ppm         ASTM D5185n         >20         0              Nickel         ppm         ASTM D5185n         >20         0              Aluminum         ppm         ASTM D5185n         >20         0             Copper         ppm         ASTM D5185n         >20         0             Addminum         ppm         ASTM D5185n         20         0	Machine Age	hrs	Client Info		0		
Oil Changed Sample Status         Client Info         N/A             CONTAMINATION         method         limit/base         current         history1         Mistory2           Water         WC Method         >.0.5         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185n         >20         <1              MetAet         ppm         ASTM D5185n         >20         0              Nickel         ppm         ASTM D5185n         >20         0              Aluminum         ppm         ASTM D5185n         >20         0             Copper         ppm         ASTM D5185n         >20         0             Addminum         ppm         ASTM D5185n         20         0	Oil Age	hrs	Client Info		12200		
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.05         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185n         >20         <1	Oil Changed		Client Info		N/A		
Water         WC Method         >0.05         NEG            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1             Ohromium         ppm         ASTM D5185m         >20         0             Nickel         ppm         ASTM D5185m         >20         0             Silver         ppm         ASTM D5185m         >20         0             Auminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         4             Vanadium         ppm         ASTM D5185m         >20         4             Vanadium         ppm         ASTM D5185m         >20         4	Sample Status				ABNORMAL		
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1             Ohromium         ppm         ASTM D5185m         >20         <1             Nickel         ppm         ASTM D5185m         >20         0             Silver         ppm         ASTM D5185m         >20         0             Auminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         4             Vanadium         ppm         ASTM D5185m         >20         4             Vanadium         ppm         ASTM D5185m         0             Adminum         ppm         ASTM D5185m         0	CONTAMINATION	N	method	limit/base	current	history1	history2
Iron         ppm         ASTM D5185m         >20         <1	Water		WC Method	>0.05	NEG		
Chromium         ppm         ASTM D5185m         >20         <1	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         >20         <1             Nickel         ppm         ASTM D5185m         >20         0             Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         0             Copper         ppm         ASTM D5185m         >20         2         1             Vanadium         ppm         ASTM D5185m         >20         2         1             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0             Marganese         ppm         ASTM D5185m         0             Marganesium         ppm         ASTM D5185m         333	Iron	ppm	ASTM D5185m	>20	<1		
Nickel         ppm         ASTM D5185m         >20         0             Titanium         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         >20         0             Aluminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         4             Copper         ppm         ASTM D5185m         >20         <1	Chromium		ASTM D5185m	>20	<1		
Titanium         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         >20         0             Aluminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         0             Copper         ppm         ASTM D5185m         >20         4             Vanadium         ppm         ASTM D5185m         >20         <1	Nickel		ASTM D5185m	>20	0		
Silver       ppm       ASTM D5185m       >20       0           Aluminum       ppm       ASTM D5185m       >20       0           Lead       ppm       ASTM D5185m       >20       4           Copper       ppm       ASTM D5185m       >20       4           Tin       ppm       ASTM D5185m       >20       <1	Titanium		ASTM D5185m		0		
Atuminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         0             Copper         ppm         ASTM D5185m         >20         4             Vanadium         ppm         ASTM D5185m         >20         <1							
Lead         ppm         ASTM D5185m         >20         0             Copper         ppm         ASTM D5185m         >20         4             Tin         ppm         ASTM D5185m         >20         <1	Aluminum			>20	0		
Copper         ppm         ASTM D5185m         >20         4             Tin         ppm         ASTM D5185m         >20         <1					-		
Tin       ppm       ASTM D5185m       >20       <1           Vanadium       ppm       ASTM D5185m       0            Cadmium       ppm       ASTM D5185m       0            ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0           Magnaese       ppm       ASTM D5185m       0           Magnesium       ppm       ASTM D5185m       0           Galcium       ppm       ASTM D5185m       0           Magnesium       ppm       ASTM D5185m       0           Calcium       ppm       ASTM D5185m       0            Sulfur       ppm       ASTM D5185m       0            Sulfur       ppm       ASTM D5185m       974            Sodium       ppm       ASTM D5185m       2	Copper				-		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         333             Sulfur         ppm         ASTM D5185m         974             Sulfur         ppm         ASTM D5185m<>15         <1             Sodium         ppm         ASTM D5185m<>20         <1 <td></td> <td></td> <td></td> <td></td> <th>&lt;1</th> <td></td> <td></td>					<1		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0              Barium         ppm         ASTM D5185m         0              Molybdenum         ppm         ASTM D5185m         0              Magnese         ppm         ASTM D5185m         0              Magnesium         ppm         ASTM D5185m         0              Calcium         ppm         ASTM D5185m         0              Sulfur         ppm         ASTM D5185m         333              Sulfur         ppm         ASTM D5185m         974              Sulfur         ppm         ASTM D5185m         >15         <1	Vanadium		ASTM D5185m		0		
Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         333             Sulfur         ppm         ASTM D5185m         333             Sulfur         ppm         ASTM D5185m         974             Sulfur         ppm         ASTM D5185m         974             Sulfur         ppm         ASTM D5185m         2             Sulfur         ppm         ASTM D5185m         >20         <1	Cadmium		ASTM D5185m				
Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         333             Sulfur         ppm         ASTM D5185m         974             Sulfur         ppm         ASTM D5185m         974             Solicon         ppm         ASTM D5185m         >15         <1             Solicon         ppm         ASTM D5185m         >20         <1             Potassium         ppm         ASTM D5185m         >20         <1             FLUID CLEANLINESS         method         limit/base	ADDITIVES		method	limit/base	current	history1	history2
Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         333             Sulfur         ppm         ASTM D5185m         974             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1	Boron	nnm	ASTM D5185m		0		
Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         333             Zinc         ppm         ASTM D5185m         333             Sulfur         ppm         ASTM D5185m         974             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1							
Manganese         ppm         ASTM D5185m         <1             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0            Calcium         ppm         ASTM D5185m         333             Calcium         ppm         ASTM D5185m         333            Calcium         ppm         ASTM D5185m         333            Calcium         ppm         ASTM D5185m         333					-		
Magnesium       ppm       ASTM D5185m       0           Calcium       ppm       ASTM D5185m       46           Phosphorus       ppm       ASTM D5185m       333           Zinc       ppm       ASTM D5185m       333           Sulfur       ppm       ASTM D5185m       404           Sulfur       ppm       ASTM D5185m       974           CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >15       <1	-				-		
Calcium       ppm       ASTM D5185m       46           Phosphorus       ppm       ASTM D5185m       333           Zinc       ppm       ASTM D5185m       333           Sulfur       ppm       ASTM D5185m       404           Sulfur       ppm       ASTM D5185m       974           CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m<>15       <1							
Phosphorus         ppm         ASTM D5185m         333             Zinc         ppm         ASTM D5185m         404              Sulfur         ppm         ASTM D5185m         974              CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1	-				-		
Zinc         ppm         ASTM D5185m         404             Sulfur         ppm         ASTM D5185m         974             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1					-		
SulfurppmASTM D5185m974CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15<1							
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1					-		
Silicon       ppm       ASTM D5185m       >15       <1					-		
Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         >20         <1             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         ▲ 18359             Particles >6µm         ASTM D7647         >1300         ● 2023             Particles >6µm         ASTM D7647         >160         46             Particles >14µm         ASTM D7647         >40         10             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         21/18/13             FLUID DEGRADATION         method         limit/base         current         history1         history2						history1	history2
Potassium         ppm         ASTM D5185m         >20         <1             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         18359             Particles >6µm         ASTM D7647         >1300         2023              Particles >6µm         ASTM D7647         >160         46              Particles >14µm         ASTM D7647         >40         10              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         21/18/13             FLUID DEGRADATION         method         limit/base         current         history1         history2		ppm		>15			
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >5000       ▲ 18359            Particles >6µm       ASTM D7647       >1300       ● 2023            Particles >6µm       ASTM D7647       >160       46            Particles >14µm       ASTM D7647       >160       46            Particles >21µm       ASTM D7647       >40       10            Particles >38µm       ASTM D7647       >10       0            Particles >71µm       ASTM D7647       >3       0            Oil Cleanliness       ISO 4406 (c)       >19/17/14       21/18/13           FLUID DEGRADATION       method       limit/base       current       history1       history2		ppm			_		
Particles >4μm       ASTM D7647       >5000       ▲ 18359           Particles >6μm       ASTM D7647       >1300       ● 2023           Particles >14μm       ASTM D7647       >160       46           Particles >21μm       ASTM D7647       >40       10           Particles >21μm       ASTM D7647       >40       10           Particles >38μm       ASTM D7647       >10       0           Particles >71μm       ASTM D7647       >3       0           Oil Cleanliness       ISO 4406 (c)       >19/17/14       21/18/13           FLUID DEGRADATION       method       limit/base       current       history1       history2			ASTM D5185m				
Particles >6µm       ASTM D7647       >1300       2023           Particles >14µm       ASTM D7647       >160       46           Particles >21µm       ASTM D7647       >40       10           Particles >21µm       ASTM D7647       >40       10           Particles >38µm       ASTM D7647       >10       0           Particles >71µm       ASTM D7647       >3       0           Oil Cleanliness       ISO 4406 (c)       >19/17/14       21/18/13           FLUID DEGRADATION       method       limit/base       current       history1       history2		ESS				history1	history2
Particles >14μm       ASTM D7647       >160       46           Particles >21μm       ASTM D7647       >40       10           Particles >38μm       ASTM D7647       >10       0           Particles >38μm       ASTM D7647       >10       0           Particles >71μm       ASTM D7647       >3       0           Oil Cleanliness       ISO 4406 (c)       >19/17/14       21/18/13           FLUID DEGRADATION       method       limit/base       current       history1       history2	,						
Particles >21μm         ASTM D7647         >40         10             Particles >38μm         ASTM D7647         >10         0             Particles >38μm         ASTM D7647         >10         0             Particles >71μm         ASTM D7647         >3         0             Oil Cleanliness         ISO 4406 (c)         >19/17/14         21/18/13             FLUID DEGRADATION         method         limit/base         current         history1         history2					-		
Particles >38μm         ASTM D7647         >10         0             Particles >71μm         ASTM D7647         >3         0              Oil Cleanliness         ISO 4406 (c)         >19/17/14         21/18/13             FLUID DEGRADATION         method         limit/base         current         history1         history2							
Particles >71μm         ASTM D7647         >3         0             Oil Cleanliness         ISO 4406 (c)         >19/17/14         ▲ 21/18/13             FLUID DEGRADATION         method         limit/base         current         history1         history2	•				10		
Oil Cleanliness       ISO 4406 (c) >19/17/14 ▲ 21/18/13           FLUID DEGRADATION       method       limit/base       current       history1       history2							
FLUID DEGRADATION method limit/base current history1 history2							
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 21/18/13		
Acid Number (AN) mg KOH/g ASTM D8045 0 24	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.24		

Report Id: ORESALOR [WUSCAR] 06153071 (Generated: 04/23/2024 12:46:43) Rev: 1

Contact/Location: AARON LAWHORN - ORESALOR

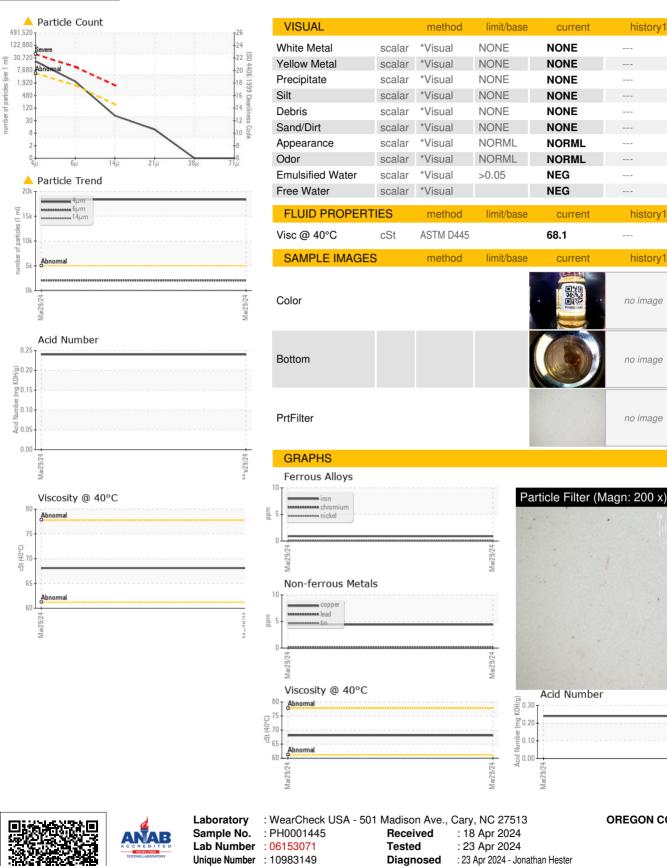
number of particles (per 1

(1 ml)

mhar

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# **OIL ANALYSIS REPORT**



Test Package : PLANT (Additional Tests: PrtFilter)

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

**OREGON CORRECTION ENT** 2605 STATE ST SALEM, OR US 97310 Contact: AARON LAWHORN alawhorn@oce.oregon.gov T: (503)373-1850 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

history1

history

history1

no image

no image

no image

history2

historv2

history2

no imade

no imade

no image

Report Id: ORESALOR [WUSCAR] 06153071 (Generated: 04/23/2024 12:46:43) Rev: 1

Certificate 12367

Contact/Location: AARON LAWHORN - ORESALOR