

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 



Machine Id AF12-511-2875-2100 FINISHED BOARD STACKING LIFT TABLE HYDRAULICS EAST CENTER

Component **Hydraulic System** 

MOBIL DTE 10 EXCEL 46 (--- GAL)

### Recommendation

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

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### **Fluid Condition**

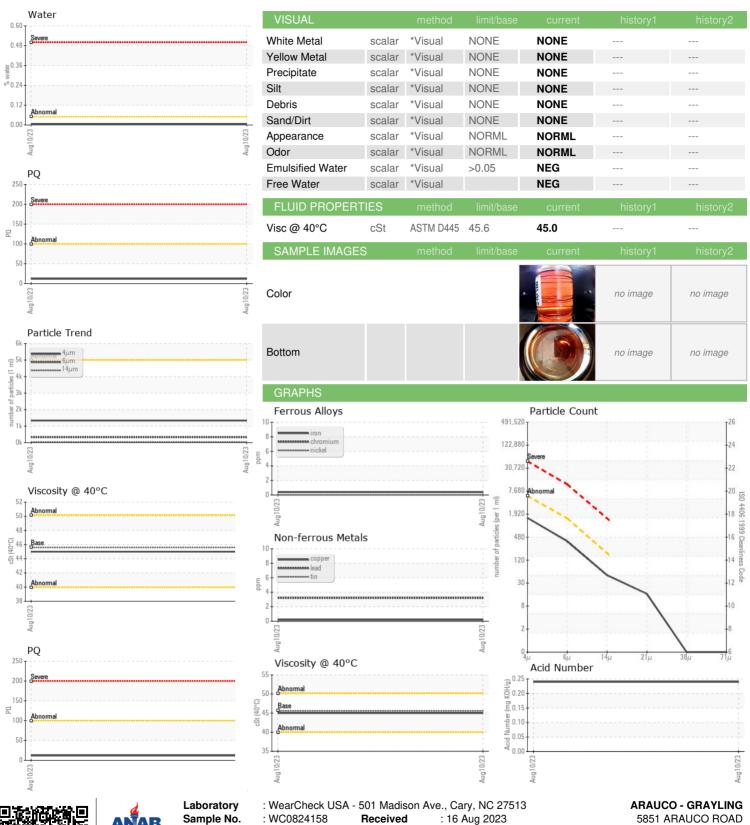
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Client Info							
Client Info   WC0824158   Client Info   Client Info   10 Aug 2023   Client Info   10 Aug 2024   Client Info   10					Aug2023		
Client Info	SAMPLE INFOR	MATION	l method	limit/base	current	history1	history2
Client Info   10 Aug 2023	Sample Number		Client Info		WC0824158		
Machine Age   yrs	Sample Date		Client Info		10 Aug 2023		
Dil Age	•	yrs	Client Info		•		
Dil Changed   Client Info   N/A   NORMAL   Sample Status   NORMAL   Sample Status   NORMAL   Status   Status   NORMAL   Status   Status	•		Client Info		0		
WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184         12	Oil Changed		Client Info		N/A		
ASTM D8184   12	Sample Status				NORMAL		
ASTM D5185m   >20   <1           Chromium   ppm   ASTM D5185m   >20   <1           Chromium   ppm   ASTM D5185m   >20   0           Citanium   ppm   ASTM D5185m   0           Citanium   ppm   ASTM D5185m   0           Citanium   ppm   ASTM D5185m   >20   3           Citanium   ppm   ASTM D5185m   >20   3           Citanium   ppm   ASTM D5185m   >20   0           Citanium   ppm   ASTM D5185m   >20   0           Cadmium   ppm   ASTM D5185m   0           Cadmium   ppm   ASTM D5185m   0           ADDITIVES   method   limit/base   current   history1   history2       Cadmium   ppm   ASTM D5185m   0           Cadagnesium   ppm   ASTM D5185m   0           Cadagnesium   ppm   ASTM D5185m   0           Cadagnesium   ppm   ASTM D5185m   26           Cadagnesium   ppm   ASTM D5185m   240           Contaminant   ppm   ASTM D5185m   240           Contaminant   ppm   ASTM D5185m   160           Contaminant   ppm   ASTM D5185m   5387           Contaminant   ppm   ASTM D5185m   0           Contaminant   ppm   ASTM	WEAR METALS		method	limit/base	current	history1	history2
Chromium   ppm   ASTM D5185m   >20   <1         Chromium   ppm   ASTM D5185m   >20   0         Citanium   ppm   ASTM D5185m   >20   0         Chromium   ppm   ASTM D5185m   >20   3         Chromium   ppm   ASTM D5185m   >20   <1         Chromium   ppm   ASTM D5185m   >20   <1         Chromium   ppm   ASTM D5185m   >20   0         Chromium   ppm   ASTM D5185m   >20   0         Chromium   ppm   ASTM D5185m   26         Chromium   ppm   ASTM D5185m   20   1         Chromium   p	PQ		ASTM D8184		12		
Side	ron	ppm	ASTM D5185m	>20	<1		
Silver	Chromium	ppm	ASTM D5185m	>20	<1		
Silver	Nickel	ppm	ASTM D5185m	>20	0		
ASTM D5185m   >20	Γitanium	ppm	ASTM D5185m		0		
Astropage	Silver	ppm	ASTM D5185m		0		
ASTM D5185m   >20   3	Aluminum		ASTM D5185m	>20	0		
Copper   Dom   ASTM D5185m   >20   <1           Astm D5185m   >20   0         Astm D5185m   Dom   Dom   ASTM D5185m   Dom   Dom   ASTM D5185m   Dom   Dom   ASTM D5185m   Dom	.ead		ASTM D5185m	>20	3		
ASTM D5185m   Port   ASTM D5185m   Port					_		
Aranadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0             Adolybdenum         ppm         ASTM D5185m         0             Alanganese         ppm         ASTM D5185m         0             Alanganesium         ppm         ASTM D5185m         26             Calcium         ppm         ASTM D5185m         240             Phosphorus         ppm         ASTM D5185m         240             Pince         ppm         ASTM D5185m         160             Pince         ppm         ASTM D5185m         160             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         1 </td <td>• •</td> <td></td> <td></td> <td>&gt;20</td> <td></td> <td></td> <td></td>	• •			>20			
ADDITIVES   method   limit/base   current   history1   history2							
ASTM D5185m   D5185							
Astrophysical Registry   Astrophysical Regis	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         26             Calcium         ppm         ASTM D5185m         240             Phosphorus         ppm         ASTM D5185m         240             Zinc         ppm         ASTM D5185m         160             Zinc         ppm         ASTM D5185m         5387             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         4             Sodium         ppm         ASTM D5185m         >20         1             Potassium         ppm         ASTM D5185m         >20         1             Potassium         ppm         ASTM D5185m         >20         1             Potassium         ppm	Boron	ppm	ASTM D5185m		0		
Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         26             Calcium         ppm         ASTM D5185m         240             Phosphorus         ppm         ASTM D5185m         160             Zinc         ppm         ASTM D5185m         5387             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         0             Contassium         ppm         ASTM D5185m         0             Potassium         ppm         ASTM D5185m         20         1             Vater         %         ASTM D6185m         >20         1             Potassium         ppm         ASTM D6185m         0         0             Vater         %         ASTM D6185m	Barium		ASTM D5185m		<1		
Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1	Molybdenum		ASTM D5185m		0		
Calcium         ppm         ASTM D5185m         26             Phosphorus         ppm         ASTM D5185m         240             Zinc         ppm         ASTM D5185m         160             Sulfur         ppm         ASTM D5185m         5387             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         4             Godium         ppm         ASTM D5185m         >20         1             Potassium         ppm         ASTM D5185m         >20         1             Water         %         ASTM D5185m         >20         1             Water         %         ASTM D5185m         >20         1             Vater         %         ASTM D5185m         >20         1             Water         %         ASTM D6304         >0.05         0.004	Manganese		ASTM D5185m		0		
Calcium         ppm         ASTM D5185m         26             Phosphorus         ppm         ASTM D5185m         240             Zinc         ppm         ASTM D5185m         160             Sulfur         ppm         ASTM D5185m         5387             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         4             Potassium         ppm         ASTM D5185m         >20         1             Vater         %         ASTM D5185m         >20         1             Vater         %         ASTM D6304         >0.05         0.004             Vater         %         ASTM D6304         >500         46.9             Particles >4μm         ASTM D7647         >5000         1337             Particles >6μm         ASTM D7647         >160         43             Particles	Magnesium		ASTM D5185m		<1		
Phosphorus         ppm         ASTM D5185m         240             Zinc         ppm         ASTM D5185m         160             Sulfur         ppm         ASTM D5185m         5387             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         4             Godium         ppm         ASTM D5185m         20         1             Potassium         ppm         ASTM D5185m         >20         1             Vater         %         ASTM D6304         >0.05         0.004             Vater         %         ASTM D6304         >500         46.9             Particles >4μm         ASTM D7647         >5000         1337             Particles >6μm         ASTM D7647         >1300         329             Particles >21μm         ASTM D7647         >40         14 <th< td=""><td>Calcium</td><td></td><td>ASTM D5185m</td><td></td><td>26</td><td></td><td></td></th<>	Calcium		ASTM D5185m		26		
Contamination   Contaminati					240		
Sulfur         ppm         ASTM D5185m         5387             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         4             Sodium         ppm         ASTM D5185m         0              Potassium         ppm         ASTM D5185m         >20         1              Vater         %         ASTM D5185m         >20         1  <	Zinc				160		
Solition   ppm   ASTM D5185m   >15   4	Sulfur						
Sodium   ppm   ASTM D5185m   20   1         Vater   %   ASTM D6304   >0.05   0.004         vater   ppm   ASTM D6304   >500   46.9         vater   ppm   ASTM D6304   >500   46.9         vater   ppm   ASTM D6304   >500   46.9         vater   ppm   ASTM D7647   >5000   1337         vaticles >4μm   ASTM D7647   >5000   1337         vaticles >6μm   ASTM D7647   >1300   329         vaticles >14μm   ASTM D7647   >160   43         vaticles >21μm   ASTM D7647   >40   14         vaticles >38μm   ASTM D7647   >10   0         vaticles >71μm   ASTM D7647   >3   0           vaticles >71μm   ASTM D7647   >3   0           vaticles >71μm   ASTM D7647   >3   0           vaticles >71μm   ASTM D7647   >3   0           vaticles >71μm   ASTM D7647   >3   0           vaticles >71μm   ASTM D7647   >3   0           vaticles >71μm   ASTM D7647   >3   0           vaticles >71μm   ASTM D7647   >3   0           vaticles >71μm   ASTM D7647   >3   0         vaticles >71μm   ASTM D7647   >3   0         vaticles	CONTAMINANTS	3	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         1             Water         %         ASTM D6304         >0.05         0.004             opm Water         ppm         ASTM D6304         >500         46.9             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >5000         1337             Particles >6μm         ASTM D7647         >1300         329             Particles >14μm         ASTM D7647         >160         43             Particles >21μm         ASTM D7647         >40         14             Particles >71μm         ASTM D7647         >3         0             P			ASTM D5185m	>15	4		
Potassium         ppm         ASTM D5185m         >20         1             Water         %         ASTM D6304         >0.05         0.004             opm Water         ppm         ASTM D6304         >500         46.9             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >5000         1337             Particles >6μm         ASTM D7647         >1300         329             Particles >14μm         ASTM D7647         >160         43             Particles >21μm         ASTM D7647         >40         14             Particles >71μm         ASTM D7647         >3         0             P	Sodium		ASTM D5185m		0		
Vater         %         ASTM D6304         >0.05         0.004             opm Water         ppm         ASTM D6304         >500         46.9             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >5000         1337             Particles >6μm         ASTM D7647         >1300         329             Particles >14μm         ASTM D7647         >160         43             Particles >21μm         ASTM D7647         >40         14             Particles >38μm         ASTM D7647         >10         0             Particles >71μm         ASTM D7647         >3         0             Dil Cleanliness         ISO 4406 (c)         >19/17/14         18/16/13							
opm Water         ppm         ASTM D6304         >500         46.9             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >5000         1337             Particles >6μm         ASTM D7647         >1300         329             Particles >14μm         ASTM D7647         >160         43             Particles >21μm         ASTM D7647         >40         14             Particles >38μm         ASTM D7647         >10         0             Particles >71μm         ASTM D7647         >3         0             Dil Cleanliness         ISO 4406 (c)         >19/17/14         18/16/13	Vater		ASTM D6304	>0.05	0.004		
Particles >4μm       ASTM D7647       >5000       1337           Particles >6μm       ASTM D7647       >1300       329           Particles >14μm       ASTM D7647       >160       43           Particles >21μm       ASTM D7647       >40       14           Particles >38μm       ASTM D7647       >10       0           Particles >71μm       ASTM D7647       >3       0           Dil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/13	ppm Water		ASTM D6304				
Particles >6μm       ASTM D7647       >1300       329           Particles >14μm       ASTM D7647       >160       43           Particles >21μm       ASTM D7647       >40       14           Particles >38μm       ASTM D7647       >10       0           Particles >71μm       ASTM D7647       >3       0           Dil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/13	FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >14μm       ASTM D7647       >160       43           Particles >21μm       ASTM D7647       >40       14           Particles >38μm       ASTM D7647       >10       0           Particles >71μm       ASTM D7647       >3       0           Dil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/13	Particles >4µm		ASTM D7647	>5000	1337		
Particles >21μm       ASTM D7647       >40       14           Particles >38μm       ASTM D7647       >10       0           Particles >71μm       ASTM D7647       >3       0           Dil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/13	Particles >6µm		ASTM D7647	>1300	329		
Particles >38μm       ASTM D7647       >10       0           Particles >71μm       ASTM D7647       >3       0           Dil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/13	Particles >14µm		ASTM D7647	>160	43		
Particles >71μm       ASTM D7647       >3       0           Dil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/13	Particles >21µm		ASTM D7647	>40	14		
Dil Cleanliness ISO 4406 (c) >19/17/14 <b>18/16/13</b>	Particles >38µm		ASTM D7647	>10	0		
11	Particles >71µm		ASTM D7647	>3	0		
FLUID DEGRADATION method limit/base current history1 history2	Dil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13		
	FLUID DEGRADA	ATION_	method	limi <u>t/base</u>	current	history1	history2

0.24



## **OIL ANALYSIS REPORT**





Certificate L2367

Sample No. Lab Number **Unique Number** Test Package : PLANT

: WC0824158 : 05926114

Received Diagnosed : 10606061

Diagnostician

: 18 Aug 2023 : Doug Bogart

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) 5851 ARAUCO ROAD GRAYLING, MI US 49738

Contact: JOSEPH GREEN joseph.green@arauco.com

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