

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

#### Area [152268] Machine Id ALBA HPU A MONT Component

Hydraulic System Fluid SHELL TELLUS 32 (245 LTR)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### 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         WC0779177         WC0779126            Sample Date         Client Info         12 Mar 2024         14 Sep 2023            Machine Age         mths         Client Info         114         9            Oil Age         mths         Client Info         114         9            Oil Changed         Client Info         N/A         Not Changd            Sample Status         Client Info         N/A         NORMAL         NORMAL            CONTAMINATION         method         Imil/base         current         history1         history1           Water         WC Method         >0.05         NEG         NEG            WEAR METALS         method         Imil/base         current         history1         history1           Iron         ppm         ASTM D5185(m)         >20         0             Nickel         ppm         ASTM D5185(m)         >20         c1         <1            Aluminum         ppm         ASTM D5185(m)         >20         c1         <1            Copper         ppm				Sep2023	Mar2024		
Sample Date         Client Info         12 Mar 2024         14 Sep 2023	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         mths         Client Info         336         28            Oil Age         mths         Client Info         114         9            Oil Changed         Client Info         N/A         Not Changed            Sample Status         Imit/Dase         current         NoRMAL            CONTAMINATION         method         Imit/Dase         current         history1         history1           Water         WC Method         >0.05         NEG         NEG            Weater         WC Method         >20         0         0            Nickel         ppm         ASIM D5185m         >20         0            Nickel         ppm         ASIM D5185m         >20         0         0            Aluminum         ppm         ASIM D5185m         >20         c1         <1            Aluminum         ppm         ASIM D5185m         >20         c1         <1            Aluminum         ppm         ASIM D5185m         >20         0         0            Aluminum         ppm         ASIM D5185m </th <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>WC0779177</th> <th>WC0779126</th> <th></th>	Sample Number		Client Info		WC0779177	WC0779126	
Oil Age         mths         Client Info         114         9            Oil Changed         Client Info         N/A         Not Changed            Sample Status         Imit/base         current         history1            Water         WC Method         >0.05         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTMD58500         >20         <1         <1            WEAR METALS         method         limit/base         current         history1         history1         history1           Iron         ppm         ASTMD58500         >20         0         <1            Nickel         ppm         ASTMD58500         >20         0         0            Itanium         ppm         ASTMD58500         >20         2         2            Copper         ppm         ASTMD58500         >20         0         0            Antimony         ppm         ASTMD58500         0         0            AstMD58500	Sample Date		Client Info		12 Mar 2024	14 Sep 2023	
Oil Changed Sample Status         Client Info         N/A         Not Changd            CONTAMINATION         method         limit/base         current         history1         history1           Water         WC Method         >0.05         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185(m)         >20         <1	Machine Age	mths	Client Info		336	28	
Sample Status         NORMAL         NORMAL         NORMAL            CONTAMINATION         method         limit/base         current         history1         history1           Water         WC Method         >0.05         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185(m)         >20         0         0            Nickel         ppm         ASTM D5185(m)         >20         0             Aluminum         ppm         ASTM D5185(m)         >20         <1         <1            Lead         ppm         ASTM D5185(m)         >20         <1         <1            Lead         ppm         ASTM D5185(m)         >20         2         2            Tin         ppm         ASTM D5185(m)         >20         0         0            Antimony         ppm         ASTM D5185(m)         0         0             Cadmium         ppm         ASTM D5185(m)         0         0 <th>Oil Age</th> <th>mths</th> <th>Client Info</th> <th></th> <th>114</th> <th>9</th> <th></th>	Oil Age	mths	Client Info		114	9	
Sample Status         nethod         imit/base         current         history1         history1           CONTAMINATION         method         imit/base         current         history1         history1           Water         WC Method         >0.05         NEG         NEG	Oil Changed		Client Info		N/A	Not Changd	
Water         WC Method         >0.05         NEG         NEG	-				NORMAL	NORMAL	
WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185(m)         >20         <1         <1            Chromium         ppm         ASTM D5185(m)         >20         0         <1            Nickel         ppm         ASTM D5185(m)         >20         0         <1            Titanium         ppm         ASTM D5185(m)         >20         <1         <1            Aluminum         ppm         ASTM D5185(m)         >20         <1         <1            Lead         ppm         ASTM D5185(m)         >20         <1         <1            Copper         ppm         ASTM D5185(m)         >20         0         0            Antimony         ppm         ASTM D5185(m)         0         0             Cadmium         ppm         ASTM D5185(m)         0         0             Barium         ppm         ASTM D5185(m)         0         0             Molybdenum         ppm         ASTM D5185(m)         0	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron         ppm         ASTM D5185(m)         >20         <1	Water		WC Method	>0.05	NEG	NEG	
Chromium         ppm         ASTM D5185(m)         >20         0         0	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185(m)         >20         0         <1            Titanium         ppm         ASTM D5185(m)         0         0            Silver         ppm         ASTM D5185(m)         20         <1	Iron	ppm	ASTM D5185(m)	>20	<1	<1	
Titanium         ppm         ASTM D5185(m)         0         0            Silver         ppm         ASTM D5185(m)         0         0            Aluminum         ppm         ASTM D5185(m)         >20         <1	Chromium	ppm	ASTM D5185(m)	>20	0	0	
Silver         ppm         ASTM D5185(m)         0         0            Aluminum         ppm         ASTM D5185(m)         >20         <1	Nickel	ppm	ASTM D5185(m)	>20	0	<1	
Silver         ppm         ASTM D5185(m)         >20         <1         <1            Aluminum         ppm         ASTM D5185(m)         >20         <1	Titanium		ASTM D5185(m)		0	0	
Aluminum         ppm         ASTM D5185(m)         >20         <1         <1            Lead         ppm         ASTM D5185(m)         >20         <1	Silver				0	0	
Lead         ppm         ASTM D5185(m)         >20         <1         <1            Copper         ppm         ASTM D5185(m)         >20         2         2            Tin         ppm         ASTM D5185(m)         >20         0         0            Antimony         ppm         ASTM D5185(m)          0         0            Vanadium         ppm         ASTM D5185(m)         0         0         0            Beryllium         ppm         ASTM D5185(m)         0         0         0            ADDITIVES         method         Imit/base         current         history1         history1           Barium         ppm         ASTM D5185(m)         0         0            Molybdenum         ppm         ASTM D5185(m)         0         0            Magnesium         ppm         ASTM D5185(m)         11         6         6            Magnesium         ppm         ASTM D5185(m)         25         45         45            Magnesium         ppm         ASTM D5185(m)         2621         2538	Aluminum		ASTM D5185(m)	>20	<1	<1	
Copper         ppm         ASTM D5185(m)         >20         2         2            Tin         ppm         ASTM D5185(m)         >20         0         0            Antimony         ppm         ASTM D5185(m)         0         0            Vanadium         ppm         ASTM D5185(m)         0         0            Beryllium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         histor           Boron         ppm         ASTM D5185(m)         0         0             Magnaese         ppm         ASTM D5185(m)         0         0             Magnesium         ppm         ASTM D5185(m)         11         6         6             Calcium         ppm         ASTM D5185(m)         259         273         293            Sulfur         ppm         ASTM D5185(m)         2621         2538 <th></th> <td></td> <td></td> <td></td> <th>&lt;1</th> <td></td> <td></td>					<1		
Tin         ppm         ASTM D5185(m)         >20         0         0            Antimony         ppm         ASTM D5185(m)         0         0         0            Vanadium         ppm         ASTM D5185(m)         0         0         0            Beryllium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         histor           Barium         ppm         ASTM D5185(m)         0         0            Molybdenum         ppm         ASTM D5185(m)         0         0            Magnesium         ppm         ASTM D5185(m)         11         6         6            Calcium         ppm         ASTM D5185(m)         259         273         293            Sulfur         ppm         ASTM D5185(m)         2621         2538            Sulfur         ppm         ASTM D5185(m)         <-1							
Antimony         ppm         ASTM D5185(m)         0         0            Vanadium         ppm         ASTM D5185(m)         0         0            Beryllium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         histor           Boron         ppm         ASTM D5185(m)         0         0            Molybdenum         ppm         ASTM D5185(m)         0         0            Magnese         ppm         ASTM D5185(m)         11         6         6            Calcium         ppm         ASTM D5185(m)         11         6         6            Magnesium         ppm         ASTM D5185(m)         259         273         293            Sulfur         ppm         ASTM D5185(m)         1865         2621         2538            Sulfur         ppm					0		
Vanadium         ppm         ASTM D5185(m)         0         0            Beryllium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         histor           Boron         ppm         ASTM D5185(m)         0         <1	Antimony		. ,		0	0	
Beryllium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         histor           Boron         ppm         ASTM D5185(m)         0         <1            Barium         ppm         ASTM D5185(m)         0         <1            Molybdenum         ppm         ASTM D5185(m)         0         0            Magnesse         ppm         ASTM D5185(m)         0         0            Magnesium         ppm         ASTM D5185(m)         11         6         6            Magnesium         ppm         ASTM D5185(m)         259         273         293            Calcium         ppm         ASTM D5185(m)         259         273         293            Sulfur         ppm         ASTM D5185(m)         26621         2538            Sulfur         ppm         ASTM D5185(m)         >16         2         2            Sodium         ppm<	,					0	
Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         histor           Boron         ppm         ASTM D5185(m)         0         <1            Barium         ppm         ASTM D5185(m)         0         0         0            Barium         ppm         ASTM D5185(m)         0         0         0            Molybdenum         ppm         ASTM D5185(m)         0         0         0            Magnesium         ppm         ASTM D5185(m)         11         6         6            Magnesium         ppm         ASTM D5185(m)         35         45         45            Calcium         ppm         ASTM D5185(m)         259         273         293            Zinc         ppm         ASTM D5185(m)         277         309         324            Sulfur         ppm         ASTM D5185(m)         2621         2538            Sulfur         ppm         ASTM D5185(m)         >15         2         2							
ADDITIVES         method         limit/base         current         history1         histor           Boron         ppm         ASTM D5185(m)         0         <1	,						
Boron         ppm         ASTM D5185(m)         0         <1	ADDITIVES			limit/base	current	historv1	history2
Barium         ppm         ASTM D5185(m)         0         0            Molybdenum         ppm         ASTM D5185(m)         0         0            Manganese         ppm         ASTM D5185(m)         0         0            Magnesium         ppm         ASTM D5185(m)         11         6         6            Calcium         ppm         ASTM D5185(m)         35         45         45            Phosphorus         ppm         ASTM D5185(m)         259         273         293            Zinc         ppm         ASTM D5185(m)         277         309         324            Sulfur         ppm         ASTM D5185(m)         277         309         324            Sulfur         ppm         ASTM D5185(m)         1865         2621         2538            Sulfur         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >20         <1         0            Potassium         ppm         ASTM D5185(m)         >20         <1		nnm					
Molybdenum         ppm         ASTM D5185(m)         0         0            Manganese         ppm         ASTM D5185(m)         11         6         6            Magnesium         ppm         ASTM D5185(m)         11         6         6            Calcium         ppm         ASTM D5185(m)         35         45         45            Calcium         ppm         ASTM D5185(m)         259         273         293            Zinc         ppm         ASTM D5185(m)         259         273         293            Sulfur         ppm         ASTM D5185(m)         2621         2538            Sulfur         ppm         ASTM D5185(m)         1865         2621         2538            Lithium         ppm         ASTM D5185(m)         >15         2         2            Solicon         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >20         <1         0            Potassium         ppm         ASTM D7647         >5000			. ,				
Manganese         ppm         ASTM D5185(m)         0         0            Magnesium         ppm         ASTM D5185(m)         11         6         6            Calcium         ppm         ASTM D5185(m)         35         45         45            Phosphorus         ppm         ASTM D5185(m)         259         273         293            Zinc         ppm         ASTM D5185(m)         277         309         324            Sulfur         ppm         ASTM D5185(m)         1865         2621         2538            Lithium         ppm         ASTM D5185(m)         1865         2621         2538            CONTAMINANTS         method         limit/base         current         history1         histor           Silicon         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >20         <1         0            FLUID CLEANLINESS         method         limit/base         current         history1         histor           Particles >4µm         ASTM D7647         >5000 <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>					-		
Magnesium         ppm         ASTM D5185(m)         11         6         6            Calcium         ppm         ASTM D5185(m)         35         45         45            Phosphorus         ppm         ASTM D5185(m)         259         273         293            Zinc         ppm         ASTM D5185(m)         277         309         324            Sulfur         ppm         ASTM D5185(m)         1865         2621         2538            Lithium         ppm         ASTM D5185(m)         1865         2621         2538            CONTAMINANTS         method         limit/base         current         history1         histor           Silicon         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >20         <1			. ,				
Calcium         ppm         ASTM D5185(m)         35         45         45            Phosphorus         ppm         ASTM D5185(m)         259         273         293            Zinc         ppm         ASTM D5185(m)         259         273         293            Sulfur         ppm         ASTM D5185(m)         277         309         324            Sulfur         ppm         ASTM D5185(m)         1865         2621         2538            Lithium         ppm         ASTM D5185(m)         1865         2621         2538            CONTAMINANTS         method         limit/base         current         history1         histor           Silicon         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >20         <1         0            FLUID CLEANLINESS         method         limit/base         current         history1         histor           Particles >4µm         ASTM D7647         >5000         1517         4661            Particles >4µm         ASTM D7647         >13	-		( )	11	-		
Phosphorus         ppm         ASTM D5185(m)         259         273         293            Zinc         ppm         ASTM D5185(m)         277         309         324            Sulfur         ppm         ASTM D5185(m)         1865         2621         2538            Lithium         ppm         ASTM D5185(m)         1865         2621         2538            CONTAMINANTS         method         limit/base         current         history1         histo           Silicon         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >15         2         2            Potassium         ppm         ASTM D5185(m)         >20         <1         0            FLUID CLEANLINESS         method         limit/base         current         history1         histor           Particles >4µm         ASTM D7647         >5000         1517         4661            Particles >6µm         ASTM D7647         >1300         228         1148            Particles >14µm         ASTM D7647         >160	0		. ,		-		
Zinc         ppm         ASTM D5185(m)         277         309         324            Sulfur         ppm         ASTM D5185(m)         1865         2621         2538            Lithium         ppm         ASTM D5185(m)         1865         2621         2538            CONTAMINANTS         method         limit/base         current         history1         histor           Silicon         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >20         <1					-		
Sulfur         ppm         ASTM D5185(m)         1865         2621         2538            Lithium         ppm         ASTM D5185(m)         1865         <1         <1            CONTAMINANTS         method         limit/base         current         history1         histor           Silicon         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >20         <1         0            Potassium         ppm         ASTM D5185(m)         >20         <1         0            FLUID CLEANLINESS         method         limit/base         current         history1         histor           Particles >4µm         ASTM D7647         >5000         1517         4661            Particles >6µm         ASTM D7647         >1300         228         1148            Particles >14µm         ASTM D7647         >160         13         71            Particles >21µm         ASTM D7647         >10         1			. ,				
Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         histor           Silicon         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)         >15         2         2            Potassium         ppm         ASTM D5185(m)         >20         <1			· · ·				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				1000			
Silicon         ppm         ASTM D5185(m)         >15         2         2            Sodium         ppm         ASTM D5185(m)          <1         <1            Potassium         ppm         ASTM D5185(m)         >20         <1         0            FLUID CLEANLINESS         method         limit/base         current         history1         histor           Particles >4µm         ASTM D7647         >5000         1517         4661            Particles >6µm         ASTM D7647         >1300         228         1148            Particles >14µm         ASTM D7647         >160         13         71            Particles >21µm         ASTM D7647         >10         1         1			. ,	11			
Sodium         ppm         ASTM D5185(m)         <1							history2
Potassium         ppm         ASTM D5185(m)         >20         <1			( )	>15			
FLUID CLEANLINESS         method         limit/base         current         history1         histor           Particles >4μm         ASTM D7647         >5000         1517         4661            Particles >6μm         ASTM D7647         >1300         228         1148            Particles >14μm         ASTM D7647         >160         13         71            Particles >21μm         ASTM D7647         >40         3         18            Particles >38μm         ASTM D7647         >10         1         1		ppm	. ,				
Particles >4μm         ASTM D7647         >5000         1517         4661            Particles >6μm         ASTM D7647         >1300         228         1148            Particles >14μm         ASTM D7647         >160         13         71            Particles >21μm         ASTM D7647         >40         3         18            Particles >38μm         ASTM D7647         >10         1         1	Potassium	ppm	ASTM D5185(m)	>20	<1	0	
Particles >6μm         ASTM D7647         >1300         228         1148            Particles >14μm         ASTM D7647         >160         13         71            Particles >21μm         ASTM D7647         >40         3         18            Particles >38μm         ASTM D7647         >10         1         1	FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >14μm         ASTM D7647         >160         13         71            Particles >21μm         ASTM D7647         >40         3         18            Particles >38μm         ASTM D7647         >10         1         1							
Particles >21μm         ASTM D7647         >40         3         18            Particles >38μm         ASTM D7647         >10         1         1	•		ASTM D7647		228		
Particles >38μm         ASTM D7647         >10         1	Particles >14µm						
	Particles >21µm		ASTM D7647	>40	3	18	
Particles >71μm         ASTM D7647         >3         1	Particles >38µm		ASTM D7647	>10	1	1	
	Particles >71µm		ASTM D7647	>3	1	1	
Oil Cleanliness ISO 4406 (c) >19/17/14 18/15/11 19/17/13			ISO 4406 (c)	>19/17/14			
:51:53) Rev: 1 Contact/Location: Gary Gazankas - ALC	:51:53) Rev: 1				Contact/Loc	ation: Gary Gaza	ankas - ALGMIS



# **OIL ANALYSIS REPORT**

	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.32	0.31	0.34	
VISUAL		method	limit/base	current	history1	history2
-	scalar					
				-		
	scalar	Visual*	NONE		NONE	
-	scalar	Visual*	NONE	NONE	NONE	
Silt Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
			>0.05			
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPER	TIES	method	limit/base	current	history1	history2
visc @ 40°C ⊢	cSt	ASTM D7279(m)	32.32	31.3	31.1	
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						no image
Bottom					0	no image
GRAPHS						
Ferrous Alloys				Particle Count	:	
10iron1			491,520			Ī
E. 5.			122,880	Severe		
			30,720			
				Abnormal		-
ep 14/2			026'1 per 1.		••	
∞ Non-ferrous Meta	le		≥ <u>sa</u> ;t± 480-	1		
			ed			
<sup>10</sup>			120			
copper			agun 120			
			40 120 90 120 90 120			-
copper			agun 120			-
E 5.			120- E 30- 8-			
copper			agun 120			
Ed 5 Viscosity @ 40°C			and 120. 30. 47. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	Acid Number	14µ 21µ	38µ 71µ
Ed 5 Viscosity @ 40°C			and 120. 30. 47. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	Acid Number	14μ 21μ	
Viscosity @ 40°C			120 30 30 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		14μ 21μ	
Ed 5 Viscosity @ 40°C			120 30 30 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Acid Number	14μ 21μ	
Viscosity @ 40°C			100: 100:	Acid Number	14μ 21μ	
Viscosity @ 40°C			120 30 30 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Acid Number	14μ 21μ	
	Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPER Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar Free Water scalar Full PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	Yellow Metal       scalar       Visual*         Precipitate       scalar       Visual*         Silt       scalar       Visual*         Debris       scalar       Visual*         Sand/Dirt       scalar       Visual*         Appearance       scalar       Visual*         Odor       scalar       Visual*         Odor       scalar       Visual*         Emulsified Water       scalar       Visual*         Free Water       scalar       Visual*         Free Water       scalar       Visual*         FLUID PROPERTIES       method         Visc @ 40°C       cSt       ASTM D7279(m)         SAMPLE IMAGES       method         Color       GRAPHS         Ferrous Alloys       Image: State S	Yellow Metal       scalar       Visual*       NONE         Precipitate       scalar       Visual*       NONE         Silt       scalar       Visual*       NONE         Debris       scalar       Visual*       NONE         Debris       scalar       Visual*       NONE         Debris       scalar       Visual*       NONE         Sand/Dirt       scalar       Visual*       NORE         Appearance       scalar       Visual*       NORML         Odor       scalar       Visual*       NORML         Emulsified Water       scalar       Visual*       >0.05         Free Water       scalar       Visual*       >0.05         Free Water       scalar       Visual*       >0.05         Visc @ 40°C       cSt       ASTM D7279(m)       32.32         SAMPLE IMAGES       method       limit/base         Color	Yellow Metal       scalar       Visual*       NONE       NONE         Precipitate       scalar       Visual*       NONE       NONE         Silt       scalar       Visual*       NONE       NONE         Debris       scalar       Visual*       NONE       NONE         Debris       scalar       Visual*       NONE       NONE         Sand/Dirt       scalar       Visual*       NONE       NONE         Appearance       scalar       Visual*       NORML       NORML         Odor       scalar       Visual*       NORML       NORML         Odor       scalar       Visual*       NORML       NORML         Odor       scalar       Visual*       >0.05       NEG         Free Water       scalar       Visual*       >0.05       NEG         FLUID PROPERTIES       method       limit/base       current         Visc @ 40°C       cSt       ASTM D7279(m)       32.32       31.3         SAMPLE IMAGES       method       limit/base       current         Color              Bottom           <	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         Odor       scalar       Visual*       NORML       NORML       NORML       NORML         Emulsified Water       scalar       Visual*       >0.05       NEG       NEG         Free Water       scalar       Visual*       NEG       NEG       NEG         Visc @ 40°C       cSt       ASTM D7279(m)       32.32       31.3       31.1         SAMPLE IMAGES       method       limit/base       current       history1         Color       Imatheter       Imatheter

Contact/Location: Gary Gazankas - ALGMIS