

## **OIL ANALYSIS REPORT**

Sample Rating Trend



### Machine Id LIEBHERR 1300 CR-3317 (S/N 138-408)

Component 2 Swing Drive Fluid

GEAR OIL ISO 220 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

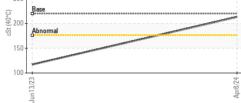
The condition of the oil is acceptable for the time in service.

Sample Date         Client Info         08 Apr 2024         13 Jun 2023            Wachine Age         hrs         Client Info         10234         9021            Dil Age         hrs         Client Info         1213         0            Sample Status         Client Info         1213         0            Sample Status         Client Info         1213         0            CONTAMINATION         method         imit/base         current         history1         history2           Water         WC Method         >0.2         NEG         NEG            WEAR METALS         method         imit/base         current         history1         history2           ron         ppm         ASTM 05185         >400         2         7            Wickel         ppm         ASTM 05185         >10         0         <         10            River         ppm         ASTM 05185         >20         0         0            River         ppm         ASTM 05185         >20         0             River         ppm         A	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age     hrs     Client Info     10234     9021        Di Aga     hrs     Client Info     1213     0        Di Changed     Client Info     1213     0        Sample Status     I     Imathe     Changed     Changed        CONTAMINATION     method     imit/base     current     history1     History2       Water     WC Method     >0.2     NEG     NEG        WEAR METALS     method     imit/base     current     history1     History2       ron     ppm     ASTM 05185m     >10     0     <-1        Nickel     ppm     ASTM 05185m     >10     0         Silver     ppm     ASTM 05185m     >50     0     0        Radminum     ppm     ASTM 05185m     >50     0     0        Aluminum     ppm     ASTM 05185m     >10     0         Aluminum     ppm     ASTM 05185m     >10     0         Aluminum     ppm     ASTM 05185m     >10     0         Copper     ppm     ASTM 05185m     50     0	Sample Number		Client Info		WC0922186	WC0810386 -	
Di Age     hrs     Client Info     1213     0        Di Changed     Client Info     Changed     Changed     Changed        Sample Status     Image     Client Info     Changed     ATTENTION        CONTAMINATION     method     Imil/base     current     history1     history2       Water     WC Method     >0.2     NEG     NEG        WEAR METALS     method     Imil/base     current     history1     history2       ron     ppm     ASTM 05185m     >4000     2     7        Nickel     ppm     ASTM 05185m     >10     0     <1	Sample Date		Client Info		08 Apr 2024	13 Jun 2023 -	
Dil Age     hrs     Client Info     1213     0        Sample Status     Client Info     Changed     Changed     Changed        Sample Status     Client Info     NORMAL     ATTENTION        CONTAMINATION     method     limi/base     current     history1     history2       Water     WC Method     >0.2     NEG     NEG        WEAR METALS     method     limi/base     current     history1     history2       Vickel     ppm     ASTM D5185n     >10     0     <1	Machine Age	hrs	Client Info		10234	9021 -	
Sample StatusNORMALATTENTIONCONTAMINATIONmethodimit/basecurrenthistory1history2WaterWC Method>0.2NEGNEGWEAR METALSmethodimit/basecurrenthistory1history2ronppmASTM D5185m>40027ChromiumppmASTM D5185m>100<1	Oil Age	hrs	Client Info		1213	0 -	
Sample StatusNORMALATTENTIONCONTAMINATIONmethodimit/basecurrenthistory1history2WaterWC Method>0.2NEGNEGWEAR METALSmethodimit/basecurrenthistory1history2ronppmASTM D5185m>40027ChromiumppmASTM D5185m>100<1	Oil Changed		Client Info		Changed	Changed -	
Water         WC Method         >0.2         NEG         NEG	Sample Status				-	ATTENTION -	
Water         WC Method         >0.2         NEG         NEG	CONTAMINATIO	N	method	limit/base	current	historv1	historv2
ron         ppm         ASTM D5185m         >400         2         7            Chromium         ppm         ASTM D5185m         >10         0         <1            Nickel         ppm         ASTM D5185m         0         0         0            Silver         ppm         ASTM D5185m         0         0         0            Aluminum         ppm         ASTM D5185m         >50         0         0            Lead         ppm         ASTM D5185m         >50         0         0            Aduminum         ppm         ASTM D5185m         >200         0         0            Copper         ppm         ASTM D5185m         >10         0         0            Zadmium         ppm         ASTM D5185m         0         0         0            ADDITVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         15         0         1            Maganese         ppm         ASTM D5185m         50         6         53 </th <th>Water</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Water						
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Dromium         ppm         ASTM D5185m         >10         0         <1            Nickel         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         0         0         0            Lead         ppm         ASTM D5185m         >25         0         <1	Iron	maa	ASTM D5185m	>400	2	7	
Nickel         ppm         ASTM D5185m         >10         0         <1            Titanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         0         0            Aluminum         ppm         ASTM D5185m         >25         0         <1	-						
Titanium         ppm         ASTM D5185m         0         0	Nickel				-		
Silver         ppm         ASTM D5185m         >25         0            Aluminum         ppm         ASTM D5185m         >25         0         <1							
Auminum         ppm         ASTM D5185m         >25         0         <1            Lead         ppm         ASTM D5185m         >50         0         0            Copper         ppm         ASTM D5185m         >200         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         50         4         86            Barium         ppm         ASTM D5185m         15         0         1            Magaanese         ppm         ASTM D5185m         15         0         12            Calcium         ppm         ASTM D5185m         50         6         53            Vangasium         ppm         ASTM D5185m         50         6         53            Calcium         ppm         ASTM D5185m         125:00         9678         24197            Sulfur         ppm         ASTM D5185m         >20	Silver						
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Barium         ppm         ASTM D5185m         15         0         1            Molybdenum         ppm         ASTM D5185m         15         0         2            Manganese         ppm         ASTM D5185m         15         0         0            Magnesium         ppm         ASTM D5185m         50         0         12            Calcium         ppm         ASTM D5185m         50         6         53            Calcium         ppm         ASTM D5185m         50         6         53            Zalcium         ppm         ASTM D5185m         350         517         1036            Zinc         ppm         ASTM D5185m         12500         9678         24197            Sulfur         ppm         ASTM D5185m         12500         9678         24197            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1	Boron	maa	ASTM D5185m	50	4	86	
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SiliconppmASTM D5185m>500<1SodiumppmASTM D5185m0<1	Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 350 100	0 6 517 4	12 53 1036 41	 
SodiumppmASTM D5185m0<1PotassiumppmASTM D5185m>20<1	Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 350 100 12500	0 6 517 4 9678	12 53 1036 41 24197	  
PotassiumppmASTM D5185m>20<1<1VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONELIGHTDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	50 350 100 12500 limit/base	0 6 517 4 9678 current	12 53 1036 41 24197 history1	   history2
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Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *Visual	50 350 100 12500 limit/base >50 >20 limit/base NONE NONE	0 6 517 4 9678 current 0 0 <1 current NONE NONE	12 53 1036 41 24197 <u>history1</u> <1 <1 <1 <1 history1 NONE NONE	   history2   history2
Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *Visual *Visual	50 350 100 12500 imit/base >50 >20 imit/base NONE NONE NONE NONE	0 6 517 4 9678 current 0 0 <1 current NONE NONE NONE	12 53 1036 41 24197 history1 <1 <1 <1 <1 <1 <1 NONE NONE NONE NONE	   history2  history2
Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	50 350 100 12500 <b>limit/base</b> >50 >20 <b>limit/base</b> NONE NONE NONE NONE	0 6 517 4 9678 current 0 0 0 <1 current NONE NONE NONE NONE NONE	12 53 1036 41 24197 history1 <1 <1 <1 <1 <1 <1 NONE NONE NONE LIGHT	  history2  history2  history2 
Odor         scalar         *Visual         NORML         NORML         NORML            Emulsified Water         scalar         *Visual         >0.2         NEG         NEG	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	50 350 100 12500 <b>Imit/base</b> >50 S20 <b>Imit/base</b> NONE NONE NONE NONE NONE NONE	0 6 517 4 9678 <u>current</u> 0 0 0 <1 current NONE NONE NONE NONE NONE NONE	12 53 1036 41 24197 history1 <1 <1 <1 <1 <1 NONE NONE NONE NONE LIGHT NONE	   history2  history2        
Emulsified Water scalar *Visual >0.2 NEG NEG	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	50 350 100 12500 <b>Iimit/base</b> >50 >20 <b>Iimit/base</b> NONE NONE NONE NONE NONE NONE NONE	0 6 517 4 9678 current 0 0 <1 current NONE NONE NONE NONE NONE NONE NONE	12 53 1036 41 24197 history1 <1 <1 <1 <1 <1 <1 <1 NONE NONE NONE LIGHT NONE NONE NONE	   history2   history2   
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	50 350 100 12500 Imit/base >50 >20 Imit/base >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	0 6 517 4 9678 current 0 0 <1 current NONE NONE NONE NONE NONE NONE NONE NON	12 53 1036 41 24197 history1 <1 <1 <1 <1 <1 <1 <1 <1 NONE NONE NONE LIGHT NONE NONE NONE NONE NONE NONE NONE NON	   history2       
	Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	50 350 100 12500 Imit/base >50 S20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	0 6 517 4 9678 current 0 0 <1 current NONE NONE NONE NONE NONE NONE NONE NON	12 53 1036 41 24197 <1 <1 <1 <1 <1 <1 NONE NONE NONE LIGHT NONE LIGHT NONE NONE NONE NONE NONE NONE NONE	  history2    history2        -

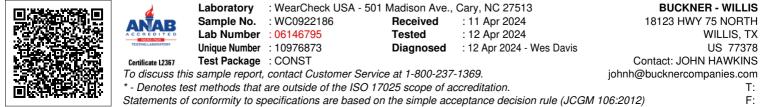


# **OIL ANALYSIS REPORT**

Viscosity @ 40°C



FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	213	117	
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS			L			
Ferrous Alloys	s		Apr6/24			
Jun13/23			Apr8/24			
Viscosity @ 40°C			Apr6/24			
َةِ VearCheck USA - 50 VC0922186	1 Madiso <b>Rece</b>					<b>(NER - WILLI</b> WY 75 NORT



Contact/Location: JOHN HAWKINS - BUCWILTX