

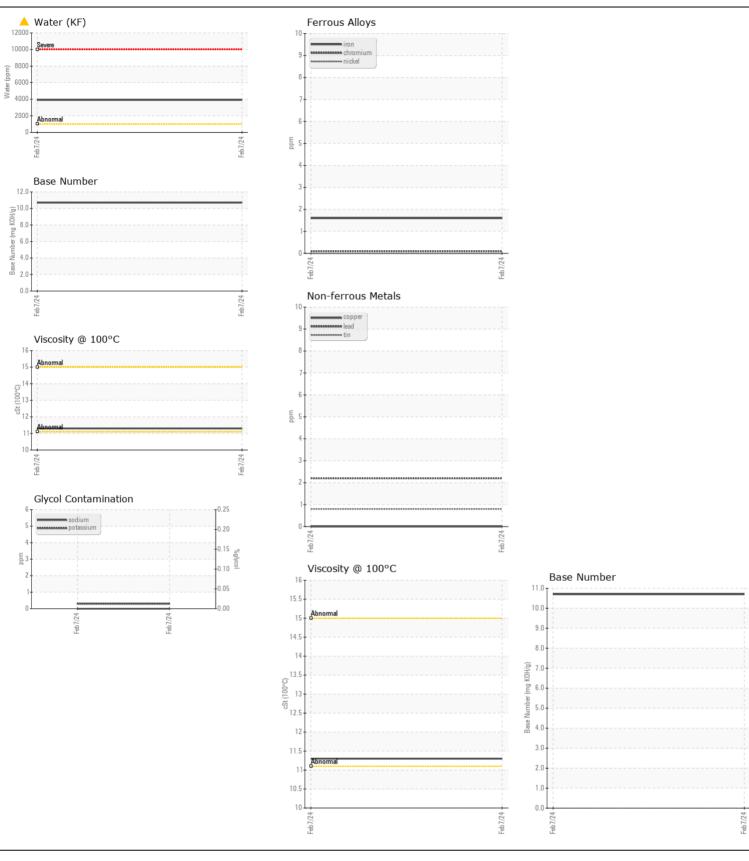
**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ABNORMAL** NORMAL

## **BERNSTENGEL EQUIPMENT**

LINDE 2018 LINDE H25CT (S/N A11313J00009)

Test	Propane Engine  luid  not provided} ( GAL)							
Sample Date	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Salipte Data is service interval to monitor.    Machine Age   hrs   Client Info   6694   .	We add to the tree about for the service of water outer. Oil and filter	Sample Number		Client Info		WC0907751		
Machine Age   Instruction   G664	change at the time of sampling has been noted. Resample at the next	Sample Date		Client Info		07 Feb 2024		
Filter Age   Prize   Client Info   Changed   Client Info   Client Info   Changed   Client Info   Changed   Client Info   Changed   Client Info   Client		Machine Age	hrs	Client Info		6694		
Oil Changed   Client Info   Changed   Client Info   Changed   Client Info   Changed   Changed   Client Info   Changed   Chan		Oil Age	hrs	Client Info		1		
Filter Changed   Sample Status			hrs			1		
Sample Status		•				Changed		
Iron		Filter Changed		Client Info		Changed		
Chromium   ppm   ASTMOSISS   2-5   < 1           Nickel   ppm   ASTMOSISS   5-5   0       Titanium   ppm   ASTMOSISS   5-5   0       Titanium   ppm   ASTMOSISS   5-5   0       Aluminum   ppm		Sample Status				ABNORMAL		
Nickel   ppm   ASTM D585m   55   0	WEAR	Iron	ppm	ASTM D5185m	>100	2		
Nickel   ppm   ASTM D1858m   <1         Titanium   ppm   ASTM D1858m   <1         Silver   ppm   ASTM D1858m   >20   2         Lead   ppm   ASTM D1858m   >20   2         Lead   ppm   ASTM D1858m   >20   2         Copper   ppm   ASTM D1858m   >25   2         Copper   ppm   ASTM D1858m   >35   0         Vanadium   ppm   ASTM D1858m   >35   0         Valuer   % ASTM D1858m   >50   11           Potassium   ppm   ASTM D1858m   >50   11           Potassium   ppm   ASTM D1858m   >50   11           Valuer   % ASTM D1858m   >50   11             Valuer   % ASTM D1858m   >50   11               Valuer   % ASTM D1858m   >50   11               Valuer   % ASTM D1858m   >50   11	All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>25	<1		
Silver   ppm   ASTM D5165m   >5   0         Aluminum   ppm   ASTM D5165m   >20   2         Copper   ppm   ASTM D5165m   >20   2         Copper   ppm   ASTM D5165m   >35   0         Tin   ppm   ASTM D5165m   >8   <1         Vanadium   ppm   ASTM D5165m   >8   <1         White Metal   scalar   Visual   NONE   NONE         White Metal   scalar   Visual   NONE   NONE         Water   %   ASTM D5165m   >50   11         Water   %   ASTM D5165m   >50   11         Water   %   ASTM D5165m   >50   11         Water   %   ASTM D5165m   >20   <1         Water   %   ASTM D5040   >0.1   \$0.3911         Potassium   ppm   ASTM D5165m   >20   <1         Water   %   ASTM D5040   >0.1   \$0.3911         Ppm Water   Scot %   %   ASTM D5040   >0.1   \$0.3911         Silt   Scot %   %   ASTM D5040   >0.1   \$0.3911         Silt   Scot %   %   ASTM D5040   >0.1   \$0.3911         Silt   Scalar   Visual   NONE   NONE         Sodium   Assimm   ASTM D7640   >0.0         Sodium   ppm   ASTM D5165m   NONE         Sodium   ppm   ASTM D5165m   0         AS		Nickel	ppm	ASTM D5185m	>5	0		
Aluminum   ppm   ASTM D5165m   >20   2		Titanium	ppm	ASTM D5185m		<1		
Lead		Silver	ppm	ASTM D5185m	>5	0		
Copper		Aluminum	ppm	ASTM D5185m	>20	2		
Tin		Lead	ppm	ASTM D5185m	>25	2		
Vanadium		Copper	ppm	ASTM D5185m	>35	0		
White Metal   Scalar   Visual   NONE   NO			ppm		>8			
Vellow Metal   Scalar   Visual   NONE   N			ppm					
Silicon   ppm   ASTM D5185m   >50   11           Water   %   ASTM D6304   >0.1			scalar					
Potassium   ppm   ASTM D5185m   >20   <1         Water   %   ASTM D6304   >0.1   △ 0.391       ppm Water   ppm   ASTM D6304   >1000   △ 3910       Soot %   % 'ASTM D7844   0       Nitration   Abs/cm 'ASTM D7844   >20   6.0       Sulfation   Abs/cm 'ASTM D7845   >30   13.2       Sit   scalar 'Visual   NONE   NONE     Debris   scalar 'Visual   NONE   NONE   NONE   NONE     Sand/Dirt   scalar 'Visual   NORM   NORM   NORM   NORM     Appearance   scalar 'Visual   NORM   NORM   NORM   NORM     Codor   scalar 'Visual   NORM   NORM   NORM   NORM     Emulsified Water   scalar 'Visual   NORM   NORM   NORM     Debris   Sand/Dirt   Scalar 'Visual   NORM   NORM   NORM     Appearance   Scalar 'Visual   NORM   NORM   NORM     Debris   Scalar 'Visual   NORM   NORM   NORM   NORM     Debris   Scalar 'Visual   NORM   NORM   NORM   NORM     Debris   Scalar 'Visual   NORM   NORM   NORM   NORM   NORM     Debris   Scalar 'Visual   NORM   N		Yellow Metal	scalar	*Visual	NONE	NONE		
Water   9%   ASTM D6304   >0.1     3910	CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	11		
Ppm Water   76	There is a moderate concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
Soot % % "ASTM D7844   0		Water	%	ASTM D6304	>0.1	<b>0.391</b>		
Nitration   Abs/cm		ppm Water	ppm	ASTM D6304	>1000	<u></u> 3910		
Sulfation   Abs/.lmm		Soot %	%			0		
Silt   scalar   *Visual   NONE   NONE		Nitration	Abs/cm	*ASTM D7624	>20	6.0		
Debris   Scalar   *Visual   NONE   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NORML   NORM			Abs/.1mm					
Sand/Dirt   Scalar   *Visual   NONE   NORML   Appearance   Scalar   *Visual   NORML			scalar					
Appearance scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML Scalar *Visual NORML								
Odor   scalar   *Visual   NORML   NORML   Emulsified Water   scalar   *Visual   >0.1   0.2%								
Emulsified Water   scalar *Visual   >0.1   0.2%								
Sodium   ppm   ASTM D5185m   98						-		
Boron   ppm   ASTM D5185m   98           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   3128           Calcium   ppm   ASTM D5185m   3128           Phosphorus   ppm   ASTM D5185m   929           Zinc   ppm   ASTM D5185m   1043           Sulfur   ppm   ASTM D5185m   3260           Oxidation   Abs/.1mm   *ASTM D7414   >25   8.3           Base Number (BN)   mg KOH/g   ASTM D2896   10.7		Emulsified Water	scalar	*Visual	>0.1	0.2%		
Barium   ppm   ASTM D5185m   0         Molybdenum   ppm   ASTM D5185m   32         Manganese   ppm   ASTM D5185m   0         Magnesium   ppm   ASTM D5185m   0         Magnesium   ppm   ASTM D5185m   110         Calcium   ppm   ASTM D5185m   3128         Phosphorus   ppm   ASTM D5185m   929         Zinc   ppm   ASTM D5185m   1043         Sulfur   ppm   ASTM D5185m   3260         Sulfur   ppm   ASTM D5185m   3260         Sulfur   ppm   ASTM D5185m   3260         Base Number (BN)   mg KOH/g   ASTM D2896   10.7	FLUID CONDITION	Sodium	ppm	ASTM D5185m				
Molybdenum ppm ASTM D5185m 32  Manganese ppm ASTM D5185m 0  Magnesium ppm ASTM D5185m 110  Calcium ppm ASTM D5185m 3128  Phosphorus ppm ASTM D5185m 929  Zinc ppm ASTM D5185m 929  Zinc ppm ASTM D5185m 1043  Sulfur ppm ASTM D5185m 3260  Oxidation Abs/.1mm *ASTM D7414 >25 8.3  Base Number (BN) mg KOH/g ASTM D2896 10.7	The RN result indicates that there is suitable alkalinity remaining in the		ppm					
Molybdenum         ppm         ASTM D5185m         32             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         110             Calcium         ppm         ASTM D5185m         3128             Phosphorus         ppm         ASTM D5185m         929             Zinc         ppm         ASTM D5185m         1043             Sulfur         ppm         ASTM D5185m         3260             Oxidation         Abs/.1mm         *ASTM D7414         >25         8.3             Base Number (BN)         mg KOH/g         ASTM D2896         10.7	· · · · · · · · · · · · · · · · · · ·		ppm					
Magnesium         ppm         ASTM D5185m         110             Calcium         ppm         ASTM D5185m         3128             Phosphorus         ppm         ASTM D5185m         929             Zinc         ppm         ASTM D5185m         1043             Sulfur         ppm         ASTM D5185m         3260             Oxidation         Abs/.1mm         *ASTM D7414         >25         8.3             Base Number (BN)         mg KOH/g         ASTM D2896         10.7		•	ppm					
Calcium         ppm         ASTM D5185m         3128             Phosphorus         ppm         ASTM D5185m         929             Zinc         ppm         ASTM D5185m         1043             Sulfur         ppm         ASTM D5185m         3260             Oxidation         Abs/.1mm         *ASTM D7414         >25         8.3             Base Number (BN)         mg KOH/g         ASTM D2896         10.7		_	ppm					
Phosphorus         ppm         ASTM D5185m         929             Zinc         ppm         ASTM D5185m         1043             Sulfur         ppm         ASTM D5185m         3260             Oxidation         Abs/.1mm         *ASTM D7414         >25         8.3             Base Number (BN)         mg KOH/g         ASTM D2896         10.7		•	ppm					
Zinc         ppm         ASTM D5185m         1043             Sulfur         ppm         ASTM D5185m         3260             Oxidation         Abs/.1mm         *ASTM D7414         >25         8.3             Base Number (BN)         mg KOH/g         ASTM D2896         10.7								
Sulfur         ppm         ASTM D5185m         3260             Oxidation         Abs/.1mm         *ASTM D7414         >25         8.3             Base Number (BN)         mg KOH/g         ASTM D2896         10.7								
Oxidation         Abs/.1mm         *ASTM D7414         >25         8.3             Base Number (BN)         mg KOH/g         ASTM D2896         10.7								
Base Number (BN)         mg KOH/g         ASTM D2896         10.7								
					>25			
Visc @ 100°C cSt ASTM D445								
		Visc @ 100°C	cSt	ASTM D445		11.3		







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0907751 Lab Number : 06086973

Unique Number : 10874418

Tested Diagnosed Test Package : CONST ( Additional Tests: Glycol, KF )

: 13 Feb 2024 Received : 14 Feb 2024

: 14 Feb 2024 - Jonathan Hester

**FORKLIFT SELECT** 12875 E 42ND AVE, SUITE 50 DENVER, CO US 80239

Contact: BYRON CHAPUIS BYRON@FORKLIFTSELECT.COM T:

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)

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