

WEAR	
CONTAMINATION	
FLUID CONDITION	NORMAL

Machine Id LIEBHERR LH50M 077508

Front Differential

GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm.

WEAR

All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

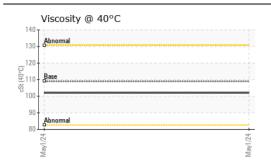
## FLUID CONDITION

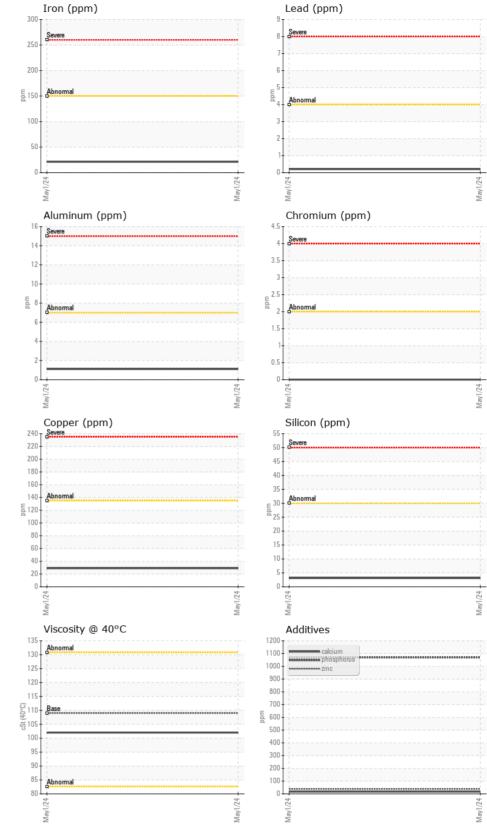
The condition of the oil is acceptable for the time in service.

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Test         UOM         Method         Limit/An         Current         History1         History2           Sample Number         Client Info         01 May 2024             Machine Age         hrs         Client Info         01 May 2024             Machine Age         hrs         Client Info         0             Oil Age         hrs         Client Info         0             Oil Changed         Client Info         N/A             Filter Age         hrs         Client Info         N/A             Sample Status         Client Info         N/A              Iron         ppm         ASTMD5186(m)         >10             Nickel         ppm         ASTMD5186(m)         >2         <1             Nickel         ppm         ASTMD5186(m)         >2         <1             Silver         ppm         ASTMD5186(m)         >3         0             Auminum         ppm <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample DateClient InfoOI May 2024Machine AgehrsClient Info18364Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/AIronppmASTM DS185(m)>15021IronppmASTM DS185(m)>2<1NickelppmASTM DS185(m)>2<1AluminumppmASTM DS185(m)>40AluminumppmASTM DS185(m)>40VanadiumppmASTM DS185(m)>30YandoiumppmASTM DS185(m)>30YaldoiumppmASTM DS185(m)>30YaldoiumppmASTM DS185(m)>303YaldoiumppmASTM DS185(m)>303YaldoiumppmASTM DS185(m)>30YaldoiumppmASTM DS185(m)>301YaldoiumppmASTM DS185(m)>201 <td< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></td<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         16364             Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         NORMAL              Iron         ppm         ASTM D5185(m)         >150         21             Chromium         ppm         ASTM D5185(m)         >2         0             Nickel         ppm         ASTM D5185(m)         >2         1             Silver         ppm         ASTM D5185(m)         >7         1             Auminum         ppm         ASTM D5185(m)         >3         0             Yanadium         ppm         ASTM D5185(m)         >3         0             Yanatium         ppm         ASTM D5	Sample Number		Client Info		LH		
Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         NORMAL             Iron         ppm         ASTM05185(m)         >150         21             Chromium         ppm         ASTM05185(m)         >2         <1             Nickel         ppm         ASTM05185(m)         >2         <1             Aluminum         ppm         ASTM05185(m)         >4         0             Lead         ppm         ASTM05185(m)         >3         0             Vanadium         ppm         ASTM05185(m)         >3         0             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM05185(m)<	Sample Date		Client Info		01 May 2024		
Filter Age Oil Changed         Nr         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         NORMAL             Iron         ppm         ASTM D5185(m)         >10         21            Nickel         ppm         ASTM D5185(m)         >2         c1            Aluminum         ppm         ASTM D5185(m)         >4         0            Lead         ppm         ASTM D5185(m)         >3         0            Vanadium         ppm         ASTM D5185(m)         >3         0            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >20         1            Silicon         pp	Machine Age	hrs	Client Info		16364		
Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         NORMAL             Iron         ppm         ASTM D5186(m)         >150         21            Chromium         ppm         ASTM D5186(m)         >2         0            Nickel         ppm         ASTM D5186(m)         >2         <1            Nickel         ppm         ASTM D5186(m)         >4         0            Silver         ppm         ASTM D5186(m)         >4         0            Aluminum         ppm         ASTM D5185(m)         >4         1            Lead         ppm         ASTM D5185(m)         >4         <1            Vanadium         ppm         ASTM D5185(m)         >3         0            Yellow Metal         scalar         Visual*         NONE             Yellow Metal         scalar         Visual*         NONE             Silicon         ppm	Oil Age	hrs	Client Info		0		
Filter Changed         Client Info         N/A             Sample Status         NORMAL              Iron         ppm         ASTM D5/85(m)         >150         21             Chromium         ppm         ASTM D5/85(m)         >2         0             Nickel         ppm         ASTM D5/85(m)         >2         0             Titanium         ppm         ASTM D5/85(m)         >2         0             Aluminum         ppm         ASTM D5/85(m)         >4         0             Aluminum         ppm         ASTM D5/85(m)         >4         <1             Lead         ppm         ASTM D5/85(m)         >3         0             Vanadium         ppm         ASTM D5/85(m)         >3         0             Yellow Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NORE	Filter Age	hrs	Client Info		0		
Sample Status         NORMAL            Iron         ppm         ASTM D5185(m)         >150         21            Chromium         ppm         ASTM D5185(m)         >2         0            Nickel         ppm         ASTM D5185(m)         >2         1            Nickel         ppm         ASTM D5185(m)         >2         <1            Titanium         ppm         ASTM D5185(m)         >4         0            Aluminum         ppm         ASTM D5185(m)         >4         0            Lead         ppm         ASTM D5185(m)         >1             Copper         ppm         ASTM D5185(m)         >3         0             Vanadium         ppm         ASTM D5185(m)         >3         0             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         3             Silicon         ppm         ASTM D5185(m)         >20         1         <	Oil Changed		Client Info		N/A		
Iron         ppm         ASTM DS185(m)         >150         21             Chromium         ppm         ASTM DS185(m)         >2         0             Nickel         ppm         ASTM DS185(m)         >2         c1             Titanium         ppm         ASTM DS185(m)         >4         0             Aluminum         ppm         ASTM DS185(m)         >4         0             Aluminum         ppm         ASTM DS185(m)         >4         0             Lead         ppm         ASTM DS185(m)         >13         29             Vanadium         ppm         ASTM DS185(m)         >3         0             Vanadium         ppm         ASTM DS185(m)         >30         0	Filter Changed		Client Info		N/A		
Image         ASTM D5185(m)         >22         0             Nickel         ppm         ASTM D5185(m)         >2         <1             Titanium         ppm         ASTM D5185(m)         >2         <1             Silver         ppm         ASTM D5185(m)         >4         0             Aluminum         ppm         ASTM D5185(m)         >4         <1             Lead         ppm         ASTM D5185(m)         >3         0             Copper         ppm         ASTM D5185(m)         >3         0             Vanadium         ppm         ASTM D5185(m)         >3         0             Vanadium         ppm         ASTM D5185(m)         >30         3             Valow Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m) </th <th>Sample Status</th> <th></th> <th></th> <th></th> <th>NORMAL</th> <th></th> <th></th>	Sample Status				NORMAL		
Image         ASTM D5185(m)         >22         0             Nickel         ppm         ASTM D5185(m)         >2         <1             Titanium         ppm         ASTM D5185(m)         >2         <1             Silver         ppm         ASTM D5185(m)         >4         0             Aluminum         ppm         ASTM D5185(m)         >4         <1             Lead         ppm         ASTM D5185(m)         >3         0             Copper         ppm         ASTM D5185(m)         >3         0             Vanadium         ppm         ASTM D5185(m)         >3         0             Vanadium         ppm         ASTM D5185(m)         >30         3             Valow Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m) </th <th></th> <th></th> <th></th> <th></th> <th>• •</th> <th></th> <th></th>					• •		
Nickel         ppm         ASTM D5185(m)         >2         <1			( )				
Titanium         ppm         ASTM D5185(m)         C         O            Silver         ppm         ASTM D5185(m)         >4         0            Aluminum         ppm         ASTM D5185(m)         >7         1            Lead         ppm         ASTM D5185(m)         >1             Copper         ppm         ASTM D5185(m)         >135         29             Vanadium         ppm         ASTM D5185(m)         >3         0             White Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >20         1             Water         wC Method         >0.2         NEG			× 7		-		
Silver         ppm         ASTM D5185(m)         >4         0            Aluminum         ppm         ASTM D5185(m)         >7         1            Lead         ppm         ASTM D5185(m)         >4         <1            Copper         ppm         ASTM D5185(m)         >135         29            Tin         ppm         ASTM D5185(m)         >3         0            Vanadium         ppm         ASTM D5185(m)         >3         0            White Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >20         1             Yellow Metal         scalar         Visual*         NONE         NORE             Silicon         ppm         ASTM D5185(m)         >20         1             Sadd/Dirt         scalar         Visual*         NONE         NORE				>2			
Aluminum         ppm         ASTM D5185(m)         >7         1            Lead         ppm         ASTM D5185(m)         >4         <1            Copper         ppm         ASTM D5185(m)         >135         29            Tin         ppm         ASTM D5185(m)         >3         0            Vanadium         ppm         ASTM D5185(m)         >30         3            Vanadium         ppm         ASTM D5185(m)         >30         3            Valow Metal         scalar         Visual*         NONE         NONE			. ,		-		
Lead         ppm         ASTM D5185(m)         >4         <1					-		
Copper         ppm         ASTM D5185(m)         >135         29             Tin         ppm         ASTM D5185(m)         >3         0             Vanadium         ppm         ASTM D5185(m)         >3         0             White Metal         scalar         Visual*         NONE              Yellow Metal         scalar         Visual*         NONE              Silicon         ppm         ASTM D5185(m)         >30         3             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >20         1             Water         WC Method         >0.2         NEG              Sad/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Godium			( /		-		
Tin         ppm         ASTM D5185(m)         >3         0            Vanadium         ppm         ASTM D5185(m)         0             White Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >30         3             Silicon         ppm         ASTM D5185(m)         >20         1             Water         WC Method         >0.2         NEG             Silit         scalar         Visual*         NONE             Debris         scalar         Visual*         NORM         NORME             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         >0.2         NEG		ppm					
Vanadium         ppm         ASTM D5185(m)         O            White Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >30         3             Silicon         ppm         ASTM D5185(m)         >20         1             Vater         WC Method         >0.2         NEG             Silit         scalar         Visual*         NONE         VLITE             Debris         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Godor         scalar         Visual*         NORML         NORML             Sodium         ppm         ASTM D5185(m)         2.0         NEG             Boron         ppm         ASTM D5185(m)         2.0		ppm	( /	>135	-		
White Metal         scalar         Visual*         NONE         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         3             Potassium         ppm         ASTM D5185(m)         >20         1             Water         WC Method         >0.2         NEG             Silt         scalar         Visual*         NONE         VLITE             Debris         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NORE         NORE             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORL         NORML             Sodium         ppm         ASTM D5185(m)         400         184             Boron         ppm		ppm	( )	>3	-		
Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >30         3             Potassium         ppm         ASTM D5185(m)         >20         1             Water         WC Method         >0.2         NEG             Silit         scalar         Visual*         NONE         VLITE             Debris         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NONE         NORE             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Sodium         ppm         ASTM D5185(m)         >0.2         NEG             Boron         ppm         ASTM D5185(m)         400         184             Molybdenum         ppm         ASTM D5185(m)		ppm			-		
SiliconppmASTM D5185(m)>303PotassiumppmASTM D5185(m)>201WaterWC Method>0.2NEGSiltscalarVisual*NONEVLITEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)>0.2NEGBoronppmASTM D5185(m)200<1MalpheenumppmASTM D5185(m)120MagneseppmASTM D5185(m)129MagnesiumppmASTM D5185(m)15017PhosphorusppmASTM D5185(m)16501070ZincppmASTM D5185(m)12538SulfurppmASTM D5185(m)12521917SulfurppmASTM D5185(m)12521917MagnesiumppmASTM D5185(m)12521917SulfurppmASTM D5185(m)12538		scalar					
PotassiumppmASTM D5185(m)>201WaterWC Method>0.2NEGSiltscalarVisual*NONEVLITEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)400184BoronppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120MagnesiumppmASTM D5185(m)129MagnesiumppmASTM D5185(m)15017PhosphorusppmASTM D5185(m)12538ZincppmASTM D5185(m)12538SulfurppmASTM D5185(m)2250021917	Yellow Metal	scalar	Visual*	NONE	NONE		
PotassiumppmASTM D5185(m)>201WaterWC Method>0.2NEGSiltscalarVisual*NONEVLITEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)400184BoronppmASTM D5185(m)200<1MalganeseppmASTM D5185(m)120MagnesiumppmASTM D5185(m)129PhosphorusppmASTM D5185(m)15017ZincppmASTM D5185(m)12538SulfurppmASTM D5185(m)12538							
WaterWC Method>0.2NEGSiltscalarVisual*NONEVLITEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLCodorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*NORSodiumppmASTM D5185(m)200<1BoronppmASTM D5185(m)200<1MalganeseppmASTM D5185(m)120MagnesiumppmASTM D5185(m)150117PhosphorusppmASTM D5185(m)16501070ZincppmASTM D5185(m)12538SulfurppmASTM D5185(m)12538	Silicon	maa	ASTM D5185(m)	>30	3		
DebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)400184BoronppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)200<1MagnesiumppmASTM D5185(m)129MagnesiumppmASTM D5185(m)15017PhosphorusppmASTM D5185(m)16501070ZincppmASTM D5185(m)12538SulfurppmASTM D5185(m)2250021917					-		
Sand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)>0.2NEGBoronppmASTM D5185(m)400184BariumppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120MagnesiumppmASTM D5185(m)129MagnesiumppmASTM D5185(m)150117PhosphorusppmASTM D5185(m)16501070ZincppmASTM D5185(m)12538SulfurppmASTM D5185(m)2250021917	Potassium		ASTM D5185(m)	>20	1		
AppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)BoronppmASTM D5185(m)400184BariumppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120ManganeseppmASTM D5185(m)129CalciumppmASTM D5185(m)150117PhosphorusppmASTM D5185(m)16501070ZincppmASTM D5185(m)12538SulfurppmASTM D5185(m)2250021917	Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.2	1 NEG		 
OdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)<1BoronppmASTM D5185(m)400184BariumppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120ManganeseppmASTM D5185(m)129MagnesiumppmASTM D5185(m)129CalciumppmASTM D5185(m)150177PhosphorusppmASTM D5185(m)16501070ZincppmASTM D5185(m)12538SulfurppmASTM D5185(m)2250021917	Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.2 NONE	1 NEG VLITE		   
OdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)<<1BoronppmASTM D5185(m)400184BariumppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120ManganeseppmASTM D5185(m)129MagnesiumppmASTM D5185(m)15017PhosphorusppmASTM D5185(m)16501070ZincppmASTM D5185(m)12538SulfurppmASTM D5185(m)2250021917	Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >0.2 NONE NONE	1 NEG VLITE NONE		   
Sodium         ppm         ASTM D5185(m)         <1	Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE	1 NEG VLITE NONE NONE		
Boron         ppm         ASTM D5185(m)         400         184            Barium         ppm         ASTM D5185(m)         200         <1            Molybdenum         ppm         ASTM D5185(m)         12         0            Manganese         ppm         ASTM D5185(m)         12         0            Magnesium         ppm         ASTM D5185(m)         12         9            Calcium         ppm         ASTM D5185(m)         12         9            Phosphorus         ppm         ASTM D5185(m)         150         17            Zinc         ppm         ASTM D5185(m)         1650         1070            Sulfur         ppm         ASTM D5185(m)         125         38	Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE NORML	1 NEG VLITE NONE NONE NORML	  	  
Boron         ppm         ASTM D5185(m)         400         184            Barium         ppm         ASTM D5185(m)         200         <1            Molybdenum         ppm         ASTM D5185(m)         12         0            Manganese         ppm         ASTM D5185(m)         12         0            Magnesium         ppm         ASTM D5185(m)         12         9            Calcium         ppm         ASTM D5185(m)         12         9            Phosphorus         ppm         ASTM D5185(m)         150         17            Zinc         ppm         ASTM D5185(m)         1650         1070            Sulfur         ppm         ASTM D5185(m)         125         38	Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML	1 NEG VLITE NONE NORE NORML	  	  
Barium         ppm         ASTM D5185(m)         200         <1	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML	1 NEG VLITE NONE NORE NORML	  	  
Molybdenum         ppm         ASTM D5185(m)         12         0            Manganese         ppm         ASTM D5185(m)          <1            Magnesium         ppm         ASTM D5185(m)         12         9            Calcium         ppm         ASTM D5185(m)         12         9            Phosphorus         ppm         ASTM D5185(m)         150         177            Zinc         ppm         ASTM D5185(m)         1650         1070            Sulfur         ppm         ASTM D5185(m)         125         38	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG VLITE NONE NORML NORML NEG	   	    
Manganese         ppm         ASTM D5185(m)         <1	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG VLITE NONE NORML NORML NEG		
Magnesium         ppm         ASTM D5185(m)         12         9            Calcium         ppm         ASTM D5185(m)         150         17             Phosphorus         ppm         ASTM D5185(m)         1650         1070             Zinc         ppm         ASTM D5185(m)         125         38             Sulfur         ppm         ASTM D5185(m)         22500         21917	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2	1 NEG VLITE NONE NORML NORML NEG <1 184		
Calcium         ppm         ASTM D5185(m)         150         17             Phosphorus         ppm         ASTM D5185(m)         1650         1070             Zinc         ppm         ASTM D5185(m)         125         38             Sulfur         ppm         ASTM D5185(m)         22500         21917	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG VLITE NONE NORML NORML NEG <1 184 <1 0		
Phosphorus         ppm         ASTM D5185(m)         1650         1070             Zinc         ppm         ASTM D5185(m)         125         38             Sulfur         ppm         ASTM D5185(m)         22500         21917	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG VLITE NONE NORML NORML NEG <1 184 <1 0		
Zinc         ppm         ASTM D5185(m)         125         38             Sulfur         ppm         ASTM D5185(m)         22500         21917	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 400 200 12	1 NEG VLITE NONE NORML NORML NEG <1 184 <1 0 <1		
Sulfur         ppm         ASTM D5185(m)         22500         21917	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 400 200 12	1 NEG VLITE NONE NORML NORML NEG <1 184 <1 0 <1 9		
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 400 200 12 12	1 NEG VLITE NONE NORML NORML NEG <1 184 <1 0 <1 9 17		
Visc @ 40°C cSt ASTM D7279(m) 109 102	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>400</li> <li>200</li> <li>12</li> <li>150</li> <li>1650</li> </ul>	1 NEG VLITE NONE NORML NORML NEG <1 184 <1 0 <1 9 17 17 1070		
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.2</li> <li>400</li> <li>200</li> <li>12</li> <li>150</li> <li>1650</li> <li>125</li> </ul>	1 NEG VLITE NONE NORML NORML NEG <1 184 <1 0 <1 184 <1 0 <1 184 17 1070 38		

Submitted By: Olivier Galimi







 Laboratory
 : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

 Iso 17025:2017
 Sample No.
 : LH
 Received
 : 13 May 2024

 Accredited Laboratory
 Unique Number
 : 5776165
 Diagnosed
 : 13 May 2024 - Wes Davis

 To discuss this sample report, contact Customer Service at 1-800-268-2131.
 : MearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied. J.M. BASTILLE ACIER INC 396 RUE TEMISCOUATA,, CP 744 RIVIERE DU LOUP, QC CA G5R 3Z3 Contact: MANAGER SERVICE

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