

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id LIEBI Component Swing Fluid {not p

LIEBHERR LH50M 077508

Swing Drive

{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

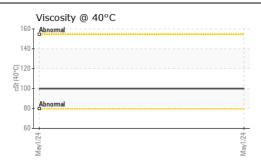
Free water present.

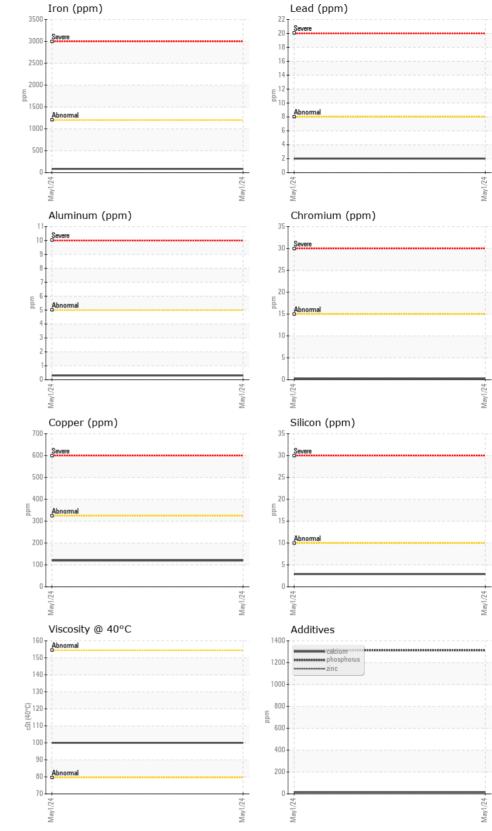
FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

TestUOMMethodLimit/ACurrentHistory1History1Sample NumberCClient InfoH40289764Sample DateClient InfoI14082024Machine AgehrsClient InfoI16364Filter AgehrsClient InfoI0Filter AgehrsClient InfoN/AFilter ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/AChromiumppmASTMD51860>150INickelppmASTMD51860>500SilverppmASTMD51860>50ISilverppmASTMD51860>50IIIAuminumppmASTMD51860>50IIINonceppmASTMD51860>510IIVanadiumppmASTMD51860>510IIVanadiumppmASTMD51860>100IIVanadiumppmASTMD51860>20IIVanadiumppmASTMD51860>20IIVanadiumppmASTMD51860>20IIVanadiumppmASTMD51860							
Sample DateClient InfoOI May2024Machine AgehrsClient InfoI6364Oil AgehrsClient InfoOFilter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/ASample StatusClient InfoN/AIronppmASTMDS185(m>150C1NickelppmASTMDS185(m>50NickelppmASTMDS185(m>50AluminumppmASTMDS185(m>50AluminumppmASTMDS185(m>5120VanadiumppmASTMDS185(m>10Yellow MetalscalarVisual*NONEILGHTSiliconppmASTMD5185(m>10Yellow MetalscalarVisual*NONEILGHTSiliconppmASTMD5185(m>10Yellow MetalscalarVisual*NONENONESiliconppmASTMD5185(m>10ILGHT <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient InfoI6364Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/AIronppmASTM0518(m)>1200855IronppmASTM0518(m)>550NickelppmASTM0518(m)>550SilverppmASTM0518(m)>550AluminumppmASTM0518(m)>50AuminumppmASTM0518(m)>51AgadppmASTM0518(m)>55VanadiumppmASTM0518(m)>155VanadiumppmASTM0518(m)>10ValdervscalarVisual*NONELIGHTSiliconppmASTM0518(m)>103ValdervscalarVisual*NONENONESiliconppmASTM0518(m)>103SiliconppmASTM0518(m)NONENONESiliconppmASTM0518	Sample Number		Client Info		LH0289764		
Cili Age Filter Age Filter Age Oil Ages HrsCilent Info Cilent Info0Gil ChangedCilent Info Cilent InfoN/AFilter ChangedCilent InfoN/ASample StatusCilent InfoN/AIronppmASTM05185(m) >120085IronppmASTM05185(m) >50NickelppmASTM05185(m) >50NickelppmASTM05185(m) >50SilverppmASTM05185(m) >50AuminumppmASTM05185(m) >510LeadppmASTM05185(m) >5120CopperppmASTM05185(m) >155VanduimppmASTM05185(m) >103SiliconppmASTM05185(m) >103SiliconppmASTM05185(m) >103SiliconppmASTM05185(m) >103SiliconppmASTM05185(m) >103SiliconppmASTM05185(m) >103SiliconppmASTM05185(m) >103SiliconppmASTM05185(m) >10ASiliconppmASTM0518(m) >10A </th <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>01 May 2024</th> <th></th> <th></th>	Sample Date		Client Info		01 May 2024		
Filter Age Oil ChangedhrsClient InfoN/AGil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusABNORMALIronppmASTMD5185(m) >120085NickelppmASTMD5185(m) >50NickelppmASTMD5185(m) >50SilverppmASTMD5185(m) >50AluminumppmASTMD5185(m) >5<1LeadppmASTMD5185(m) >325120CopperppmASTMD5185(m) >155VanadiumppmASTMD5185(m) >103Vellow MetalscalarVisual*NONELIGHTSiliconppmASTMD5185(m) >103SiliconppmASTMD5185(m) >103SiliconppmASTMD5185(m) >103SiliconppmASTMD5185(m) >103SiliconppmASTMD5185(m) >103SiliconppmASTMD5185(m) >103SiliconppmASTMD5185(m) >10ASiliconppmASTMD5185(m) >10ASilicon <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>16364</th> <th></th> <th></th>	Machine Age	hrs	Client Info		16364		
Cili Changed Filter ChangedCilent InfoN/AFilter ChangedCilent InfoN/ASample StatusABNORMALIronppmASTMD518[m]<>120085ChromiumppmASTMD518[m]<>50NickelppmASTMD518[m]<>50SilverppmASTMD518[m]<>50AluminumppmASTMD518[m]-5-1LeadppmASTMD518[m]-5120CopperppmASTMD518[m]-5120Yellow MetalscalarVisual*NONELIGHTSiliconppmASTMD518[m]>10SiliconppmASTMD518[m]>10SiliconppmASTMD518[m]>103SiliconppmASTMD518[m]>103SiliconscalarVisual*NONENONESiliconppmASTMD518[m]>103SiliconppmASTMD518[m]>103SiliconppmASTMD518[m]>10ASoliconscalarVisual*NONENONESoliconscal	Oil Age	hrs	Client Info		0		
Filter Changed Client Info N/A Sample Status Client Info N/A Jacous ASTM D5185(m) >1200 850 Iron ppm ASTM D5185(m) >1200 855 Chromium ppm ASTM D5185(m) >50 0 Nickel ppm ASTM D5185(m) >50 0 Titanium ppm ASTM D5185(m) >50 0 Silver ppm ASTM D5185(m) >50 0	Filter Age	hrs	Client Info		0		
Sample StatusASTM DS185(m)>1200ABNORMALIronppmASTM DS185(m)>1200855ChromiumppmASTM DS185(m)>50NickelppmASTM DS185(m)>50TitaniumppmASTM DS185(m)>50SilverppmASTM DS185(m)>5C1AluminumppmASTM DS185(m)>5C1LeadppmASTM DS185(m)>82CopperppmASTM DS185(m)>155VanadiumppmASTM DS185(m)>155VanadiumppmASTM DS185(m)>10Vellow MetalscalarVisual*NONELIGHTSiliconppmASTM DS185(m)>103SiliconppmASTM DS185(m)>20<1SiliconppmASTM DS185(m)>20<1SiliconppmASTM DS185(m)>20<1SiliconppmASTM DS185(m)>20<1SiliconppmASTM DS185(m)NONENONESiliconppmASTM DS185(m)NONENONESiliconppmASTM DS185(m)NONENONESoduryisua	Oil Changed		Client Info		N/A		
IronppmASTM D5185(m>1200885ChromiumppmASTM D5185(m>15<1NickelppmASTM D5185(m>50TitaniumppmASTM D5185(m>50AluminumppmASTM D5185(m>5<1AluminumppmASTM D5185(m>5<1LeadppmASTM D5185(m>32120CopperppmASTM D5185(m>325VanadiumppmASTM D5185(m>120VanadiumppmASTM D5185(m>100Yellow MetalscalarVisual*NONELIGHTYellow MetalscalarVisual*NONEIIGHYellow MetalscalarVisual*NONEIIGHTYellow MetalscalarVisual*NONEIIGHTSiliconppmASTM D5185(m>20<1SiliconppmASTM D5185(m>20IIGHTSoliconppmASTM D5185(mNORIIGHTSoliconppmASTM D5185(mNORIIGHTSoliconppmASTM D5185(mNORIIGHT	Filter Changed		Client Info		N/A		
Chromium ppm ASTM D5185(m) >15 <1	Sample Status				ABNORMAL		
Chromium ppm ASTM D5185(m) >15 <1							
Nickel ppm ASTM D5185(m) >5 0 Titanium ppm ASTM D5185(m) >5 0 Silver ppm ASTM D5185(m) 5 <1 Aluminum ppm ASTM D5185(m) >5 <1 Lead ppm ASTM D5185(m) >5 120 Copper ppm ASTM D5185(m) >15 5 Vanadium ppm ASTM D5185(m) >15 5 Vanadium ppm ASTM D5185(m) >10 3 Vanadium ppm ASTM D5185(m) >10 3 Vanadium ppm ASTM D5185(m) >10 3 Vanadium ppm ASTM D5185(m) >20 <1	-		()				
Titanium ppm ASTM D5185(m) >5 0 Silver ppm ASTM D5185(m) >5 <1 Aluminum ppm ASTM D5185(m) >8 2 Lead ppm ASTM D5185(m) >8 2 Copper ppm ASTM D5185(m) >15 5 Vanadium ppm ASTM D5185(m) >15 5 Vanadium ppm ASTM D5185(m) >10 1 Vanadium ppm ASTM D5185(m) >10 3 Vanadium ppm ASTM D5185(m) >10 3 Vanadium ppm ASTM D5185(m) >10 3 Vanadium ppm ASTM D5185(m) >20 <1 Vanadiu NONE </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
SilverppmASTM D5185(m)oAluminumppmASTM D5185(m)>5<1LeadppmASTM D5185(m)>82CopperppmASTM D5185(m)>325120TinppmASTM D5185(m)>155VanadiumppmASTM D5185(m)>155Vellow MetalscalarVisual*NONELIGHTSiliconppmASTM D5185(m)>103SiliconppmASTM D5185(m)>20<1WaterWC Method>0.2NEGSilitscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORESodiumppmASTM D5185(m)<03BoronppmASTM D5185(m)NORESodiumppmASTM D5185(m)<3SodiumppmASTM D5185(m)<3BoronppmASTM D5185(m)<3MagneseeppmASTM D5185(m)<0MagnesiumppmASTM D5185(m)<1MagnesiumppmASTM D5185(m)<1MagnesiumppmASTM D5							
AluminumppmASTM D5185(m)>5<1		ppm		>5	-		
Lead ppm ASTM D5185(m) >8 2 Copper ppm ASTM D5185(m) >325 120 Tin ppm ASTM D5185(m) >15 5 Vanadium ppm ASTM D5185(m) >10 White Metal scalar Visual* NONE LIGHT Yellow Metal scalar Visual* NONE LIGHT Silicon ppm ASTM D5185(m) >10 3 Silicon ppm ASTM D5185(m) >10 3 Water WC Method >0.2 NEG Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORM AMORIL Sodium ppm ASTM D5185(m) -		ppm	()		-		
Copper ppm ASTM D5185(m) >325 120 Tin ppm ASTM D5185(m) >15 5 Vanadium ppm ASTM D5185(m) >10 White Metal scalar Visual* NONE LIGHT Yellow Metal scalar Visual* NONE LIGHT Silicon ppm ASTM D5185(m) >10 3 Potassium ppm ASTM D5185(m) >20 <1 Water WC Method >0.2 NEG Silt scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NORE Appearance scalar Visual* NORM MCRU Godr scalar Visual* NORM MCRU Appea	Aluminum	ppm	ASTM D5185(m)	>5			
TinppmASTM D5185(m)>155VanadiumppmASTM D5185(m)0White MetalscalarVisual*NONELIGHTYellow MetalscalarVisual*NONELIGHTYellow MetalscalarVisual*NONELIGHTSiliconppmASTM D5185(m) >103PotassiumppmASTM D5185(m) >20<1WaterWC Method >0.2NEGSilitscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONEAppearancescalarVisual*NORMMORMLGodorscalarVisual*NORMMORMLSodiumppmASTM D5185(m)3BariumppmASTM D5185(m)0MaganeseppmASTM D5185(m)<15MagnesiumppmASTM D5185(m)<15PhosphorusppmASTM D5185(m)<1313SadurppmASTM D5185(m)<20SodiumppmASTM D5185(m)<1313BariumppmASTM D5185(m)<1313P		ppm			_		
Vanadium ppm ASTM D5185(m) O White Metal scalar Visual* NONE LIGHT Yellow Metal scalar Visual* NONE LIGHT Silicon ppm ASTM D5185(m) >10 3 Silicon ppm ASTM D5185(m) >20 <1 Potassium ppm ASTM D5185(m) >20 <1 Water WC Method >0.2 NEG Saddr Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORM MCOIL Sodium ppm ASTM D5185(m) A 4 G Boron ppm ASTM D5185(m) A 282 Molybdenum <th>Copper</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th>>325</th> <th>120</th> <th></th> <th></th>	Copper	ppm	ASTM D5185(m)	>325	120		
White MetalscalarVisual*NONELIGHTYellow MetalscalarVisual*NONELIGHTSiliconppmASTM D5185(m)>103PotassiumppmASTM D5185(m)>20<1WaterWC Method>0.2NEGSilitscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMMORMLOdorscalarVisual*NORMMORMLSodiumppmASTM D5185(m)3BaronppmASTM D5185(m)3ManganeseppmASTM D5185(m)0ManganeseppmASTM D5185(m)436ManganesiumppmASTM D5185(m)15PhosphorusppmASTM D5185(m)1313PhosphorusppmASTM D5185(m)20ManganesiumppmASTM D5185(m)20PhosphorusppmASTM D5185(m)15PhosphorusppmASTM D5185(m)20 <th>Tin</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th>>15</th> <th>5</th> <th></th> <th></th>	Tin	ppm	ASTM D5185(m)	>15	5		
Yellow MetalscalarVisual*NONELIGHTSiliconppmASTM D5185(m) >103PotassiumppmASTM D5185(m) >20<1WaterWC Method >0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONEMONEAppearancescalarVisual*NORML \checkmark WGOILOdorscalarVisual*NORMLMORMLSodiumppmASTM D5185(m)3BariumppmASTM D5185(m)0MalybdenumppmASTM D5185(m)0ManganeseppmASTM D5185(m)<15MagnesiumppmASTM D5185(m)15PhosphorusppmASTM D5185(m)<1313SulfurppmASTM D5185(m)20MagnesiumppmASTM D5185(m)15PhosphorusppmASTM D5185(m)20SulfurppmASTM D5185(m)20SulfurppmASTM D5185(m)20SulfurppmASTM D5185(m)20Su	Vanadium	ppm	ASTM D5185(m)		0		
Silicon ppm ASTM D5185(m) >10 3 Potassium ppm ASTM D5185(m) >20 <1 Water WC Method >0.2 NEG Silt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML MGOIL Odor scalar Visual* NORML MGOIL Sodium ppm ASTM D5185(m) -0.2 .2% Sodium ppm ASTM D5185(m) 282 Barium ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 436	White Metal	scalar	Visual*	NONE	LIGHT		
PotassiumppmASTM D5185(m)>20<1	Yellow Metal	scalar	Visual*	NONE	LIGHT		
WaterWC Method >0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMMORMLOdorscalarVisual*NORMLMORMLEmulsified WaterscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)3BariumppmASTM D5185(m)0MolybdenumppmASTM D5185(m)0MagnesiumppmASTM D5185(m)15PhosphorusppmASTM D5185(m)11313ZincppmASTM D5185(m)20SuffurppmASTM D5185(m)1313MagnesiumppmASTM D5185(m)20PhosphorusppmASTM D5185(m)20SuffurppmASTM D5185(m)21481	Silicon	ppm	ASTM D5185(m)	>10	3		
SiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMMGOILOdorscalarVisual*NORMMORMLOdorscalarVisual*NORMMORMLEmulsified WaterscalarVisual*>0.22%SodiumppmASTM D5185(m)3BoronppmASTM D5185(m)0BariumppmASTM D5185(m)0MolybdenumppmASTM D5185(m)0MagnesiumppmASTM D5185(m)15PhosphorusppmASTM D5185(m)11313ZincppmASTM D5185(m)20SuffurppmASTM D5185(m)121481	Potassium	ppm	ASTM D5185(m)	>20	<1		
DebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLAWGOILOdorscalarVisual*NORMLMORMLDebrisscalarVisual*NORMLMORMLOdorscalarVisual*NORMLAWGOILEmulsified WaterscalarVisual*>0.2.2%SodiumppmASTM D5185(m)3BoronppmASTM D5185(m)0BariumppmASTM D5185(m)0MolybdenumppmASTM D5185(m)0MagnesiumppmASTM D5185(m)15PhosphorusppmASTM D5185(m)115PhosphorusppmASTM D5185(m)20SulfurppmASTM D5185(m)21481	Water		WC Method	>0.2	NEG		
Sand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLMGOILOdorscalarVisual*NORMLNORMLIncomeEmulsified WaterscalarVisual*>0.2.2%SodiumppmASTM D5185(m)3BoronppmASTM D5185(m)282BariumppmASTM D5185(m)0MolybdenumppmASTM D5185(m)0MagnesiumppmASTM D5185(m)16PhosphorusppmASTM D5185(m)115PhosphorusppmASTM D5185(m)1313ZincppmASTM D5185(m)20SulfurppmASTM D5185(m)121481	Silt	scalar	Visual*	NONE	NONE		
AppearancescalarVisual*NORML \checkmark WGOILOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2.2%SodiumppmASTM D5185(m).3BoronppmASTM D5185(m).282BariumppmASTM D5185(m).0MolybdenumppmASTM D5185(m).0ManganeseppmASTM D5185(m)MagnesiumppmASTM D5185(m).15PhosphorusppmASTM D5185(m).1313ZincppmASTM D5185(m).20SulfurppmASTM D5185(m).21481	Debris	scalar	Visual*	NONE	NONE		
Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 .2% Sodium ppm ASTM D5185(m) 3 Boron ppm ASTM D5185(m) 282 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 436 Phosphorus ppm ASTM D5185(m) 15 Phosphorus ppm ASTM D5185(m) 1313 Zinc ppm ASTM D5185(m) 20 Sulfur ppm ASTM D5185(m) 21481	Sand/Dirt	scalar	Visual*	NONE	NONE		
Emulsified Water scalar Visual* >0.2 .2% Sodium ppm ASTM D5185(m) 3 Boron ppm ASTM D5185(m) 282 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) Magnesium ppm ASTM D5185(m) Phosphorus ppm ASTM D5185(m) Phosphorus ppm ASTM D5185(m) 15 Zinc ppm ASTM D5185(m) 1313 Sulfur ppm ASTM D5185(m) 20	Appearance	scalar	Visual*	NORML	🔺 WGOIL		
Sodium ppm ASTM D5185(m) 3 Boron ppm ASTM D5185(m) 282 Barium ppm ASTM D5185(m) 0 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) <1 Magnesium ppm ASTM D5185(m) <136 Phosphorus ppm ASTM D5185(m) 15 Phosphorus ppm ASTM D5185(m) 1313 Zinc ppm ASTM D5185(m) 20 Sulfur ppm ASTM D5185(m) 21481	Odor	scalar	Visual*	NORML	NORML		
Boron ppm ASTM D5185(m) 282 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) <1 Calcium ppm ASTM D5185(m) 436 Phosphorus ppm ASTM D5185(m) 15 Zinc ppm ASTM D5185(m) 1313 Sulfur ppm ASTM D5185(m) 20	Emulsified Water	scalar	Visual*	>0.2	.2%		
Boron ppm ASTM D5185(m) 282 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) <1 Calcium ppm ASTM D5185(m) 436 Phosphorus ppm ASTM D5185(m) 15 Zinc ppm ASTM D5185(m) 1313 Sulfur ppm ASTM D5185(m) 20	Sodium	maa	ASTM D5185(m)		3		
Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) <1			()				
Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) <1 Magnesium ppm ASTM D5185(m) <1 Magnesium ppm ASTM D5185(m) <136 Calcium ppm ASTM D5185(m) <15 Phosphorus ppm ASTM D5185(m) <1313 Zinc ppm ASTM D5185(m) 20 Sulfur ppm ASTM D5185(m) 21481							
Manganese ppm ASTM D5185(m) <1							
Magnesium ppm ASTM D5185(m) 436 Calcium ppm ASTM D5185(m) 15 Phosphorus ppm ASTM D5185(m) 1313 Zinc ppm ASTM D5185(m) 20 Sulfur ppm ASTM D5185(m) 21481							
Calcium ppm ASTM D5185(m) 15 Phosphorus ppm ASTM D5185(m) 1313 Zinc ppm ASTM D5185(m) 20 Sulfur ppm ASTM D5185(m) 21481							
Phosphorus ppm ASTM D5185(m) 1313 Zinc ppm ASTM D5185(m) 20 Sulfur ppm ASTM D5185(m) 21481	-		ASTM D5185(m)				
Zinc ppm ASTM D5185(m) 20 Sulfur ppm ASTM D5185(m) 21481			ASTM D5185(m)				
Sulfur ppm ASTM D5185(m) 21481	•				20		
	Sulfur						

Submitted By: Olivier Galimi







CALLALaboratory: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9Iso 17025:2017Sample No.: LH0289764Received: 13 May 2024Lab Number: 02635009Tested: 13 May 2024Unique Number: 5776162Diagnosed: 13 May 2024 - Kevin MarsonTo discuss this sample report, contact Customer Service at 1-800-268-2131.

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

> T: (418)862-3346 F:

Report Id: JMBRIV [WCAMIS] 02635009 (Generated: 05/14/2024 13:44:25) Rev: 1

Submitted By: Olivier Galimi Page 2 of 2