







To: LUKE APPLEBY
 LIEBHERR EQUIPMENT SOURCE
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA, USA 23607


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DERICHEBOURG RECYCLING - 1 WHARF ST, HOUSTON, TX 77012


Sample No. : LHMC98360 Lab Number : 04915036 Test Package : MOB 1 Sampled : 10 Feb 2020		Machine Id Component Fluid	LIEBHERR LH30 1253-97471 Diesel Engine DIESEL ENGINE OIL SAE 15W40 (7 GAL)	WEAR CONTAMINATION FLUID CONDITION	NORMAL NORMAL NORMAL
Sample No. : LHMC98257 Lab Number : 04915070 Test Package : MOB 1 Sampled : 10 Feb 2020		Machine Id Component Fluid	LIEBHERR LH30 1253-97471 Front Differential GEAR OIL SAE 80W90 (--- GAL)	WEAR CONTAMINATION FLUID CONDITION	NORMAL NORMAL NORMAL
Sample No. : LHMC140933 Lab Number : 04915067 Test Package : MOB 1 Sampled : 10 Feb 2020		Machine Id Component Fluid	LIEBHERR LH30 1253-97471 Rear Differential GEAR OIL SAE 80W90 (--- GAL)	WEAR CONTAMINATION FLUID CONDITION	NORMAL NORMAL NORMAL
Sample No. : LHMC98105 Lab Number : 04915068 Test Package : MOB 1 Sampled : 10 Feb 2020		Machine Id Component Fluid	LIEBHERR LH30 1253-97471 Splitter Box GEAR OIL SAE 80W90 (--- GAL)	WEAR CONTAMINATION FLUID CONDITION	NORMAL NORMAL NORMAL
Sample No. : LHMC98212 Lab Number : 04915073 Test Package : MOB 1 Sampled : 10 Feb 2020		Machine Id Component Fluid	LIEBHERR LH30 1253-97471 Swing Drive GEAR OIL SAE 80W140 (--- GAL)	WEAR CONTAMINATION FLUID CONDITION	NORMAL ABNORMAL NORMAL
Sample No. : LHMC98103 Lab Number : 04915048 Test Package : MOB 1 Sampled : 10 Feb 2020		Machine Id Component Fluid	LIEBHERR LH30 1253-97471 Transmission NOT GIVEN (--- GAL)	WEAR CONTAMINATION FLUID CONDITION	NORMAL NORMAL NORMAL


ENCORE RECYCLING - 6781 CHAPMAN RD, LITHONIA, GA 30058

Sample No. : LH0157292 Lab Number : 04915038 Test Package : MOBCE Sampled : 12 Feb 2020		Machine Id Component Fluid	LIEBHERR LH60 097849-1212 Diesel Engine LIEBHERR 15W40 (10 GAL)	WEAR CONTAMINATION FLUID CONDITION	NORMAL NORMAL NORMAL
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GREEN METALS CANADA - 224 BEARDS LANE, WOODSTOCK, ON N4S 7W3

Sample No. : LH0162634 Lab Number : 02338748 Test Package : MOB 1 Sampled : 12 Feb 2020		Machine Id Component Fluid	LIEBHERR LH30M 112545-1253 Diesel Engine NOT GIVEN (--- GAL)	WEAR CONTAMINATION FLUID CONDITION	NORMAL NORMAL NORMAL
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Sample No. : LH0162637		Machine Id	LIEBHERR LH30M 112545-1253	WEAR	NORMAL
Lab Number : 02338884		Component	Hydraulic System	CONTAMINATION	NORMAL
Test Package : MOB 1		Fluid	NOT GIVEN (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 12 Feb 2020					


Sample No. : LH0162636		Machine Id	LIEBHERR LH30M 112545-1253	WEAR	NORMAL
Lab Number : 02338926		Component	Splitter Box	CONTAMINATION	NORMAL
Test Package : MOB 1		Fluid	GEAR OIL SAE 80W90 (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 12 Feb 2020					


INTERNATIONAL PAPER - 1380 MORRIS RD, MADISON, GA 30650


Sample No. : LH0164258		Machine Id	LIEBHERR LH40C 1527-113152	WEAR	ABNORMAL
Lab Number : 04915033		Component	Diesel Engine	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	NOT GIVEN (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 11 Feb 2020					


METAL X - 295 S COMMERCE DR, WATERLOO, IN 46796


Sample No. : LHMC143288		Area	[1375]	WEAR	NORMAL
Lab Number : 04915039		Machine Id	LIEBHERR A924 028357-957	CONTAMINATION	NORMAL
Test Package : MOB 1		Component	Diesel Engine	FLUID CONDITION	NORMAL
Sampled : 10 Feb 2020		Fluid	DIESEL ENGINE OIL SAE 15W40 (8 GAL)		


Sample No. : LHMC154506		Area	[1375]	WEAR	NORMAL
Lab Number : 04915071		Machine Id	LIEBHERR A924 028357-957	CONTAMINATION	NORMAL
Test Package : MOB 1		Component	Front Differential	FLUID CONDITION	NORMAL
Sampled : 10 Feb 2020		Fluid	GEAR OIL SAE 80W90 (--- GAL)		


Sample No. : LHMC143291		Area	[1375]	WEAR	SEVERE
Lab Number : 04915063		Machine Id	LIEBHERR A924 028357-957	CONTAMINATION	NORMAL
Test Package : MOB 1		Component	Front Left Wheel Hub	FLUID CONDITION	NORMAL
Sampled : 10 Feb 2020		Fluid	GEAR OIL SAE 80W90 (--- GAL)		

Sample No. : LHMC155074		Area	[1375]	WEAR	ABNORMAL
Lab Number : 04915066		Machine Id	LIEBHERR A924 028357-957	CONTAMINATION	NORMAL
Test Package : MOB 1		Component	Front Right Wheel Hub	FLUID CONDITION	NORMAL
Sampled : 10 Feb 2020		Fluid	GEAR OIL SAE 80W90 (1 GAL)		


Sample No. : LHMC143278		Area	[1375]	WEAR	NORMAL
Lab Number : 04914795		Machine Id	LIEBHERR A924 028357-957	CONTAMINATION	NORMAL
Test Package : MOB 2		Component	Hydraulic System	FLUID CONDITION	ATTENTION
Sampled : 10 Feb 2020		Fluid	AW HYDRAULIC OIL ISO 68 (80 GAL)		


Sample No. : LHMC143272		Area	[1375]	WEAR	ABNORMAL
Lab Number : 04915069		Machine Id	LIEBHERR A924 028357-957	CONTAMINATION	NORMAL
Test Package : MOB 1		Component	Rear Differential	FLUID CONDITION	NORMAL
Sampled : 10 Feb 2020		Fluid	GEAR OIL SAE 80W90 (--- GAL)		






Sample No. : LHMC143271		Area	[1375]	WEAR	NORMAL
Lab Number : 04915072		Machine Id	LIEBHERR A924 028357-957	CONTAMINATION	NORMAL
Test Package : MOB 1		Component	Rear Right Wheel Hub	FLUID CONDITION	NORMAL
Sampled : 10 Feb 2020		Fluid	GEAR OIL SAE 80W90 (--- GAL)		

Sample No. : LHMC143273		Area	[1375]	WEAR	ABNORMAL
Lab Number : 04915065		Machine Id	LIEBHERR A924 028357-957	CONTAMINATION	ABNORMAL
Test Package : MOB 1		Component	Swing Drive	FLUID CONDITION	NORMAL
Sampled : 10 Feb 2020		Fluid	GEAR OIL SAE 80W90 (2 GAL)		






NORTH AMERICAN COAL - BISTI FUELS - NAVAJO MINE - 300 RD 4104, FRUITLAND, NM 87416

Sample No. : LH0158262		Machine Id	LIEBHERR R9400 043079-1629	WEAR	NORMAL
Lab Number : 04915801		Component	1 Swing Drive	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	VG 460 (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 17 Feb 2020					


Sample No. : LH0158263		Machine Id	LIEBHERR R9400 043079-1629	WEAR	NORMAL
Lab Number : 04915798		Component	2 Swing Drive	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	VG 460 (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 11 Feb 2020					

Sample No. : LH0157998		Machine Id	LIEBHERR R9400 043079-1629	WEAR	NORMAL
Lab Number : 04915663		Component	Diesel Engine	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	PHILLIPS 66 15W40 (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 17 Feb 2020					
Sample No. : LH0157999		Machine Id	LIEBHERR R9400 043079-1629	WEAR	NORMAL
Lab Number : 04915367		Component	Hydraulic System	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	PHILLIPS 66 15W40 (1110 GAL)	FLUID CONDITION	NORMAL
Sampled : 11 Feb 2020					
Sample No. : LH0157997		Machine Id	LIEBHERR R9400 043079-1629	WEAR	NORMAL
Lab Number : 04915800		Component	Left Final Drive	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	CASTROL ALPHASYN PG 460 (21 GAL)	FLUID CONDITION	NORMAL
Sampled : 17 Feb 2020					
Sample No. : LH0157996		Machine Id	LIEBHERR R9400 043079-1629	WEAR	NORMAL
Lab Number : 04915799		Component	Right Final Drive	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	CASTROL ALPHASYN PG 460 (21 GAL)	FLUID CONDITION	NORMAL
Sampled : 17 Feb 2020					
Sample No. : LH0158000		Machine Id	LIEBHERR R9400 043079-1629	WEAR	NORMAL
Lab Number : 04915802		Component	Splitter Box	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	PHILLIPS 80W90 (65 GAL)	FLUID CONDITION	NORMAL
Sampled : 17 Feb 2020					



RECO EQUIPMENT INC - 925 CARTHAGE HWY, LEBANON, TN 37087

Sample No. : LH0148063		Machine Id	LIEBHERR PR736XL 1155-18655	WEAR	ABNORMAL
Lab Number : 04915795		Component	Diesel Engine	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	NOT GIVEN (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 14 Feb 2020					
Sample No. : LH0148066		Machine Id	LIEBHERR PR736XL 1155-18655	WEAR	NORMAL
Lab Number : 04915366		Component	Hydraulic System	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	NOT GIVEN (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 14 Feb 2020					
Sample No. : LH0148064		Machine Id	LIEBHERR PR736XL 1155-18655	WEAR	NORMAL
Lab Number : 04915796		Component	Left Final Drive	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	NOT GIVEN (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 14 Feb 2020					
Sample No. : LH0148065		Machine Id	LIEBHERR PR736XL 1155-18655	WEAR	NORMAL
Lab Number : 04915797		Component	Right Final Drive	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	NOT GIVEN (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 14 Feb 2020					
Sample No. : LH0148067		Machine Id	LIEBHERR PR736XL 1155-18655	WEAR	NORMAL
Lab Number : 04915794		Component	Splitter Box	CONTAMINATION	NORMAL
Test Package : MOBCE		Fluid	NOT GIVEN (--- GAL)	FLUID CONDITION	NORMAL
Sampled : 14 Feb 2020					

RECO EQUIPMENT INC. - 20620 ROUTE 19 NORTH, CRANBERRY TOWNSHIP, PA 16066

Sample No. : LHMC99333		Machine Id	LIEBHERR LH60M 116172-1217	WEAR	ABNORMAL
Lab Number : 04915040		Component	Diesel Engine	CONTAMINATION	NORMAL
Test Package : MOB 1		Fluid	FACTORY FILL 5W30 LOW ASH (9 GAL)	FLUID CONDITION	NORMAL
Sampled : 06 Feb 2020					

REPUBLIC SERVICES - 7911 NOTES DR, MANASSAS, VA 20109

Sample No. : LHMC96264		Machine Id	LIEBHERR L550 1214-55108	WEAR	ABNORMAL
Lab Number : 04915035		Component	Diesel Engine	CONTAMINATION	NORMAL
Test Package : MOB 1		Fluid	SAE 10W40 (8 GAL)	FLUID CONDITION	NORMAL
Sampled : 13 Feb 2020					
Sample No. : LHMC96304		Machine Id	LIEBHERR L550 1214-55108	WEAR	ABNORMAL
Lab Number : 04915062		Component	Front Differential	CONTAMINATION	NORMAL
Test Package : MOB 1		Fluid	LIEBHERR GEAR BASIC 90 LS (8 GAL)	FLUID CONDITION	NORMAL
Sampled : 13 Feb 2020					

Sample No. : LHMC96305
Lab Number : 04914796
Test Package : MOB 2
Sampled : 13 Feb 2020



Machine Id
 Component
 Fluid

LIEBHERR L550 1214-55108
 Hydraulic System
 LIEBHERR HYDRAULIC HVI (63 GAL)

WEAR
 CONTAMINATION
 FLUID CONDITION

NORMAL
NORMAL
NORMAL

Sample No. : LHMC96290
Lab Number : 04915074
Test Package : MOB 1
Sampled : 13 Feb 2020



Machine Id
 Component
 Fluid

LIEBHERR L550 1214-55108
 Rear Differential
 LIEBHERR GEAR BASIC 90 LS (8 GAL)

WEAR
 CONTAMINATION
 FLUID CONDITION

NORMAL
NORMAL
NORMAL

Sample No. : LHMC96292
Lab Number : 04915064
Test Package : MOB 1
Sampled : 13 Feb 2020



Machine Id
 Component
 Fluid

LIEBHERR L550 1214-55108
 Splitter Box
 85W140 EP (3 QTS)

WEAR
 CONTAMINATION
 FLUID CONDITION

NORMAL
ABNORMAL
NORMAL

Sample No. : LHMC96295
Lab Number : 04915047
Test Package : MOB 1
Sampled : 13 Feb 2020



Machine Id
 Component
 Fluid

LIEBHERR L550 1214-55108
 Transmission
 ATF 5W20 (3 GAL)

WEAR
 CONTAMINATION
 FLUID CONDITION

NORMAL
NORMAL
NORMAL

VERSO CORP - QUINNESEC MILL - W6791 US HWY 2, QUINNESEC, MI 49876

Sample No. : LH04915032
Lab Number : 04915032
Test Package : MOB 1
Sampled : 18 Feb 2020



Machine Id
 Component
 Fluid

LIEBHERR L580 1414-56018
 Diesel Engine
 NOT GIVEN (--- GAL)

WEAR
 CONTAMINATION
 FLUID CONDITION

NORMAL
NORMAL
NORMAL