

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

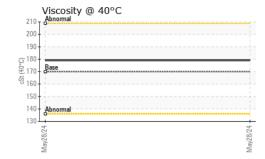


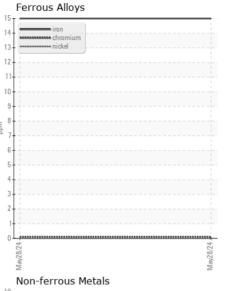
AMR-Cheyenne

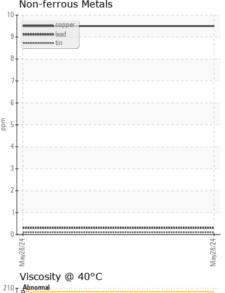
693245 LIEBHERR LH60M 156876

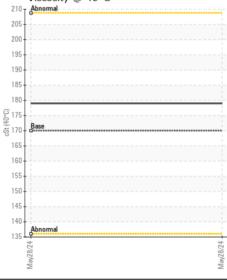
Front Axle

Test	LIEBHERR GEAR BASIC 90 LS	(GAL)						
Resample at the next service interval to monitor. Sample Number Client Info 28 May 224	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info 28 May 2024 Machine Age hrs Client Info 0 OI Age hrs Client Info 0 OI Age hrs Client Info 0 Filter Age hrs Client Info 0 Filter Age hrs Client Info 0 OI Changed Client Info Not Changd OI Changed Client Info Not Changd Filter Changed Client Info Not Changd Filter Changed Client Info Not Changd Sample Status NoRMAL Nickel ppm ASTM Distish Nickel ppm ASTM Distish Nickel ppm ASTM Distish Nickel ppm ASTM Distish Aluminum ppm ASTM Distish Aluminum ppm ASTM Distish Copper ppm ASTM Distish Copper ppm ASTM Distish Copper ppm ASTM Distish White Metal scalar "Visual NONE White Metal scalar "Visual NONE CONTAMINATION Silcon ppm ASTM Distish Water Work Metod 0 Water Work Metod 0 Other scalar "Visual NONE Other scalar "Visual NONE		Sample Number		Client Info				
Oii Age hrs Cilent Info O	resample at the flext service merval to monitor.	Sample Date		Client Info		28 May 2024		
Filter Age		Machine Age	hrs	Client Info		655		
Oil Changed Client Info Not Change Client Info Sample Status Not Change Client Info NA Cli		Oil Age	hrs	Client Info		0		
Filter Changed Sample Status		Filter Age	hrs	Client Info		0		
Normal N		Oil Changed		Client Info		Not Changd		
Iron		Filter Changed		Client Info		N/A		
All component wear rates are normal. Chromium ppm ASTM D5185m >10 <1		Sample Status				NORMAL		
Nickel ppm ASTM D5185m >10 0 .	WEAR	Iron	ppm	ASTM D5185m	>500	15		
Nickel	All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1		
Silver		Nickel	ppm	ASTM D5185m	>10	0		
Aluminum ppm ASTM D5185m >25 0		Titanium	ppm	ASTM D5185m		<1		
Lead ppm ASTM DS185m >25 <1		Silver	ppm	ASTM D5185m		0		
Copper		Aluminum	ppm	ASTM D5185m	>25	0		
Tin		Lead	ppm	ASTM D5185m	>25	<1		
Vanadium ppm ASTM D5185m <1 ··· ··· ···		Copper	ppm	ASTM D5185m	>50	10		
White Metal Yellow Metal Scalar Visual NONE NO		Tin	ppm	ASTM D5185m	>10	<1		
Yellow Metal scalar *Visual NONE NONE		Vanadium	ppm	ASTM D5185m		<1		
Silicon ppm ASTM D5185m >75 3		White Metal	scalar	*Visual	NONE	NONE		
Potassium		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium	CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	3		
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 NORML NORML Appearance scalar *Visual NORML NORML NORML Debris scalar *Visual NONE NONE NORML Appearance scalar *Visual NORML		Potassium	ppm	ASTM D5185m	>20	<1		
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NORML	is its indication of any contamination in the oil.	Water		WC Method	>0.2	NEG		
Sand/Dirt Scalar *Visual NONE NONE Appearance Scalar *Visual NORML NORML NORML Odor Scalar *Visual NORML NOR		Silt	scalar	*Visual	NONE	NONE		
Appearance Scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE		
Odor Scalar *Visual NORML NORML Fmulsified Water Scalar *Visual >0.2 NEG		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 2		Odor	scalar	*Visual	NORML	NORML		
Boron		Emulsified Water	scalar	*Visual	>0.2	NEG		
Barium ppm ASTM D5185m 0 362 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 <1 Calcium ppm ASTM D5185m <1 0 Calcium ppm ASTM D5185m <1 11 Phosphorus ppm ASTM D5185m <1 110 Sulfur ppm ASTM D5185m <1 9 Sulfur ppm ASTM D5185m <1 9 Calcium ppm ASTM D5185m <1 9 Calcium ppm ASTM D5185m <1 9 Sulfur ppm ASTM D5185m 23468 31988 Sulfur ppm ASTM D5185m 23468 31988 Calcium ppm ASTM D5185m 23468 31988	FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
Barium ppm ASTM D5185m 0 362 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 <1	The condition of the oil is acceptable for the time in service	Boron	ppm	ASTM D5185m	0	11		
Manganese ppm ASTM D5185m 0 <1	The condition of the direction acceptable for the time in convice.	Barium	ppm	ASTM D5185m	0	362		
Magnesium ppm ASTM D5185m <1		Molybdenum	ppm	ASTM D5185m	0	0		
Calcium ppm ASTM D5185m <1		Manganese	ppm	ASTM D5185m	0	<1		
Phosphorus ppm ASTM D5185m 2143 1305 Zinc ppm ASTM D5185m <1		Magnesium	ppm	ASTM D5185m	<1	0		
Zinc ppm ASTM D5185m <1		Calcium	ppm	ASTM D5185m	<1	11		
Sulfur ppm ASTM D5185m 23468 31988 Visc @ 40°C cSt ASTM D445 170 179		Phosphorus	ppm			1305		
Visc @ 40°C		Zinc	ppm	ASTM D5185m	<1	9		
			ppm	ASTM D5185m	23468			
		Visc @ 40°C	cSt					











Certificate L2367

Sample No.

Laboratory

: DJJ0020055 Lab Number : 06197139 Unique Number : 11059262 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 **Tested** : 03 Jun 2024

: 04 Jun 2024 - Don Baldridge

ADVANTAGE METALS RECYCLING - CHEYENNE 1015 S. PACKARD ST

KANSAS CITY, KS US 66105

Contact: BRIAN JACOBS

BRIAN.JACOBS@ADVANTAGERECYCLING.COM T: (816)808-4711

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)

Diagnosed

F: