

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



AMR-Cheyenne 693245 LIEBHERR LH60M 156876 Rear Right Final Drive

LIEBHERR GEAR BASIC 90 LS (--- GAL)

RECOMMENDATION	
Resample at the next service interval	to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

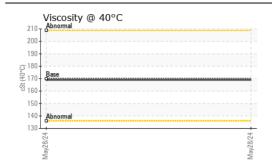
There is no indication of any contamination in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0020054		
Sample Date		Client Info		28 May 2024		
Machine Age	hrs	Client Info		655		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
		40TH DE105	050			
Iron	ppm	ASTM D5185m	>350	22		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>125	9		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>45	4		
Potassium	ppm	ASTM D5185m	>20	1		
Water		WC Method	>0.2	NEG		
Silt	agalar	*Visual	NONE	NONE		
	scalar	visuai				
Debris	scalar	*Visual	NONE	NONE		
				-		
Debris Sand/Dirt	scalar	*Visual	NONE	NONE		
Debris	scalar scalar	*Visual *Visual	NONE NONE	NONE		
Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NORML	NONE NONE NORML		
Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NORML NORML	NONE NORML NORML		
Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 3		
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML NORML	NONE NORML NORML NEG 3 50	 	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 0 0	NONE NORML NORML NEG 3 50 315	 	
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 0 0	NONE NORML NORML NEG 3 50 315 0		
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 0 0 0 0	NONE NORML NORML NEG 3 50 315 0 1		
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 0 0 0	NONE NORML NORML NEG 3 50 315 0		
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 0 0 0 0 0 1 4 1	NONE NORML NORML NEG 3 50 315 0 1 1 1 10		
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 0 0 0 0 0 2	NONE NORML NORML NEG 3 50 315 0 1 1		
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 0 0 0 0 0 (1 <1 2143 <1	NONE NORML NORML NEG 3 50 315 0 1 1 1 10 1553 13		
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Malybdenum Magnesium Calcium Phosphorus	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 0 0 0 0 0 1 1 <1 2143	NONE NORML NORML NEG 3 50 315 0 1 1 1 10 1553		

Contact/Location: BRIAN JACOBS - ADVKANKS



Ferrous Alloys 22 20 nicke 18 16 0 Non-ferrous Metals 10 lead maa Viscosity @ 40°C Abnormal 210 205 200 195 190 185 180 € 00 175 ಸ್ಥ ಸ್ಥ 170 165 160 155 150 145 140 135 Aav28/24 VI = U28

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : DJJ0020054 ۶ġ Lab Number : 06197136 Certificate L2367

Tested : 03 Jun 2024 KANSAS CITY, KS Unique Number : 11059259 Diagnosed : 03 Jun 2024 - Wes Davis US 66105 Test Package : CONST Contact: BRIAN JACOBS BRIAN.JACOBS@ADVANTAGERECYCLING.COM 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. T: (816)808-4711 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 31 May 2024

Received

Contact/Location: BRIAN JACOBS - ADVKANKS Page 2 of 2

ADVANTAGE METALS RECYCLING - CHEYENNE

1015 S. PACKARD ST

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