

NORMAL WEAR CONTAMINATION NORMAL FLUID CONDITION NORMAL



1

1

AMR-St Joe

115441 LIEBHERR LH50 115441

Front Differential

LIEBHERR GEAR BASIC 90 LS (--- GAL)

RECOMMENDATION	Test	UOM
Resample at the next service interval to monitor.	Sample Number	
	Sample Date	
	Machine Age	hrs
	Oil Age	hrs
	Filter Age	hrs
	Oil Changed	
	Filter Changed	
	Sample Status	
WEAR		
WEAR	Iron	ppm
All component wear rates are normal.	Chromium	ppm
	Nickel	ppm
	Titanium	ppm
	Silver	ppm
	Aluminum	ppm
	Lead	ppm
	Copper	ppm
	Tin	ppm
	Vanadium	ppm
	White Metal	scalar
	Yellow Metal	scalar
CONTAMINATION	Silicon	ppm
-	Potassium	ppm
I here is no indication of any contamination in the oil.		
There is no indication of any contamination in the oil.	Water	
I here is no indication of any contamination in the oil.	Water Silt	scalar
There is no indication of any contamination in the oil.		scalar scalar
There is no indication of any contamination in the oil.	Silt	
There is no indication of any contamination in the oil.	Silt Debris	scalar
There is no indication of any contamination in the oil.	Silt Debris Sand/Dirt	scalar scalar
There is no indication of any contamination in the oil.	Silt Debris Sand/Dirt Appearance	scalar scalar scalar
FLUID CONDITION	Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar
FLUID CONDITION	Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar ppm
FLUID CONDITION	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm
FLUID CONDITION	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm
FLUID CONDITION	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm
FLUID CONDITION	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm
FLUID CONDITION	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0018516	DJJ0018476	DJJ0018535
Sample Date		Client Info		18 Jun 2024	10 Jan 2024	30 May 2023
Machine Age	hrs	Client Info		1999	1496	998
Oil Age	hrs	Client Info		0	496	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>190	13	7	59
Chromium	ppm	ASTM D5185m	>2	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>5	<1	2	0
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>70	6	3	14
Tin	ppm	ASTM D5185m	>2	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	<1	<1	5
Potassium	ppm	ASTM D5185m	>20	0	1	0
Water	le le	WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		4	0	4
Boron	ppm	ASTM D5185m	0	<1	0	0
Barium	ppm	ASTM D5185m	0	6	15	344
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	2
Magnesium	ppm	ASTM D5185m	<1	<1	<1	0
Calcium	ppm	ASTM D5185m	<1	45	8	12
Phosphorus	ppm	ASTM D5185m	2143	2215	2232	1065
Zinc	ppm	ASTM D5185m	<1	19	0	0
Sulfur	ppm	ASTM D5185m	23468	28334	30253	25056

Contact/Location: RICK ARCHER - ADVSTJ

188

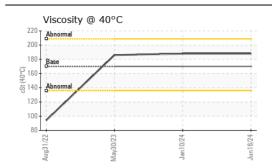
188

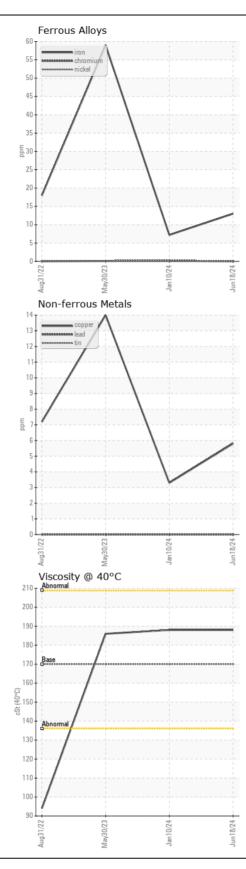
Visc @ 40°C

cSt

ASTM D445 170

186





: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested

: 27 Jun 2024

: 28 Jun 2024

ADVANTAGE METALS RECYCLING - ST JOSEPH 750 S 4TH ST ST JOSEPH, MO : 30 Jun 2024 - Don Baldridge US 64501 Contact: RICK ARCHER richard.archer@advantagerecycling.com;rea@djj.com T: (816)279-7403 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (816)364-3611

Report Id: ADVSTJ [WUSCAR] 06222912 (Generated: 06/30/2024 20:18:52) Rev: 1

Certificate L2367

Laboratory

Sample No.

Lab Number : 06222912

Unique Number : 11101109

Test Package : CONST

: DJJ0018516

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.

Contact/Location: RICK ARCHER - ADVSTJ Page 2 of 2