

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



AMR-St Joe 115441 LIEBHERR LH50 115441

Swing Drive

LIEBHERR GEAR BASIC 90 LS (--- GAL)

Re	sample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

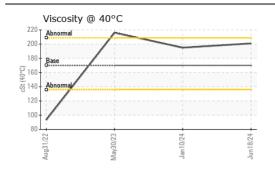
There is no indication of any contamination in the oil.

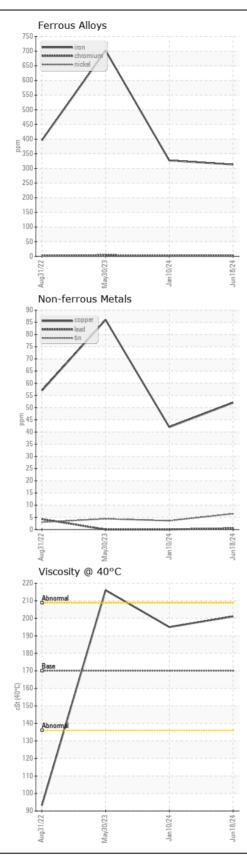
FLUID CONDITION

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

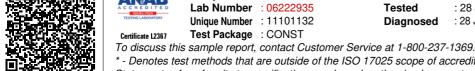
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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0018512	DJJ0018475	DJJ0018537
Sample Date		Client Info		18 Jun 2024	10 Jan 2024	30 May 2023
Machine Age	hrs	Client Info		1999	1496	998
Oil Age	hrs	Client Info		0	0	0
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	ABNORMAL
				• • •		
Iron	ppm	ASTM D5185m	>1450	313	327	702
Chromium	ppm	ASTM D5185m	>11	3	2	4
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>4	0	2	0
Lead	ppm	ASTM D5185m	>4	<1	0	0
Copper	ppm	ASTM D5185m	>542	52	42	86
Tin	ppm	ASTM D5185m	>38	6	4	4
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Silicon	ppm	ASTM D5185m	>15	<1	1	3
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.2	NEG	NEG	0.2%
Sodium	ppm	ASTM D5185m		4	1	4
Boron	ppm	ASTM D5185m	0	2	2	1
Barium	ppm	ASTM D5185m	0	<1	11	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m	0	3	2	6
Magnesium	ppm	ASTM D5185m	<1	<1	<1	0
Calcium	ppm	ASTM D5185m	<1	10	12	55
Phosphorus	ppm	ASTM D5185m	2143	2152	2142	2066
Zinc	ppm	ASTM D5185m	<1	20	0	15
Sulfur	ppm	ASTM D5185m	23468	29420	28977	25056
Visc @ 40°C	cSt	ASTM D445	170	201	195	216
			-			-

Contact/Location: RICK ARCHER - ADVSTJ





ADVANTAGE METALS RECYCLING - ST JOSEPH 750 S 4TH ST ST JOSEPH, MO : 28 Jun 2024 - Wes Davis US 64501 Contact: RICK ARCHER richard.archer@advantagerecycling.com;rea@djj.com T: (816)279-7403 F: (816)364-3611



* - 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)

: DJJ0018512

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

Received

Diagnosed

Tested

: 27 Jun 2024

: 28 Jun 2024

Laboratory

Sample No.

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