

AMR-12th Street 484145 116360 Component Swing Drive Fluid LIEBHERR GEAR BASIC 90 LS (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Gear wear is indicated.

CONTAMINATION

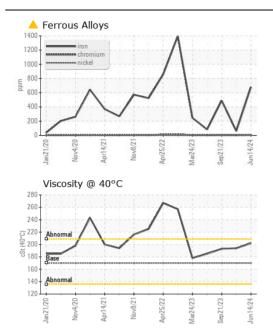
There is no indication of any contamination in the oil.

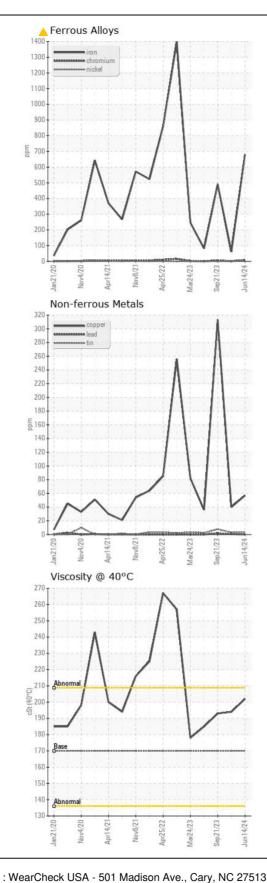
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0023302	DJJ0020063	DJJ0018348
Sample Date		Client Info		14 Jun 2024	02 Jan 2024	21 Sep 2023
Machine Age	hrs	Client Info		9959	9493	9001
Oil Age	hrs	Client Info		1000	0	0
Filter Age	hrs	Client Info		250	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
			400		01	400
Iron	ppm	ASTM D5185m	>400	▲ 680 -7	61 1	▲ 490 ● 5
Chromium	ppm	ASTM D5185m	>10	7		
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	05	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>50	<1	<1	2
Copper	ppm	ASTM D5185m	>200	57	40	▲ 313
Tin	ppm	ASTM D5185m	>10	4	3	▲ 8
Vanadium	ppm	ASTM D5185m	NONE	0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	3	2	4
Potassium	ppm	ASTM D5185m	>20	<1	1	4
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	NONE	MODER
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	NEG
Sodium	ppm	ASTM D5185m		0	0	6
Boron	ppm	ASTM D5185m	0	1	0	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m	0	5	<1	2
Magnesium	ppm	ASTM D5185m	<1	ہ <1	<1	5
Calcium	ppm	ASTM D5185m	<1	0	18	97
Phosphorus	ppm	ASTM D5185m	2143	2565	2451	2683
Zinc	ppm	ASTM D5185m	<1	8	0	30
Sulfur	ppm	ASTM D5185m	23468	28697	37328	29362
Visc @ 40°C	cSt	ASTM D3103m ASTM D445	170	20097	194	193
VISC @ 40 C	001	A0 HVI D440	170	202	134	100

Contact/Location: JOHN PEEK - ADVKANLH





ADVANTAGE METALS RECYCLING - 12 STREET 1153 S. 12TH STREET KANSAS CITY, KS US 66105 Contact: JOHN PEEK john.peek@advantagerecycling.com T: (660)424-9134 F: (913)621-2766



Diagnosed : 23 Jun 2024 - Don Baldridge Unique Number : 11089000 Test Package : CONST Certificate L2367 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)

Received

Tested

: 20 Jun 2024

: 21 Jun 2024

Laboratory

Sample No.

Lab Number : 06216136

: DJJ0023302

Contact/Location: JOHN PEEK - ADVKANLH Page 2 of 2