

# WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ATTENTION

#### Machine Id CASE 15499 CR1202 (S/N 98205) Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 220 (--- GAL)

#### RECOMMENDATION

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



All component wear rates are normal.

## CONTAMINATION

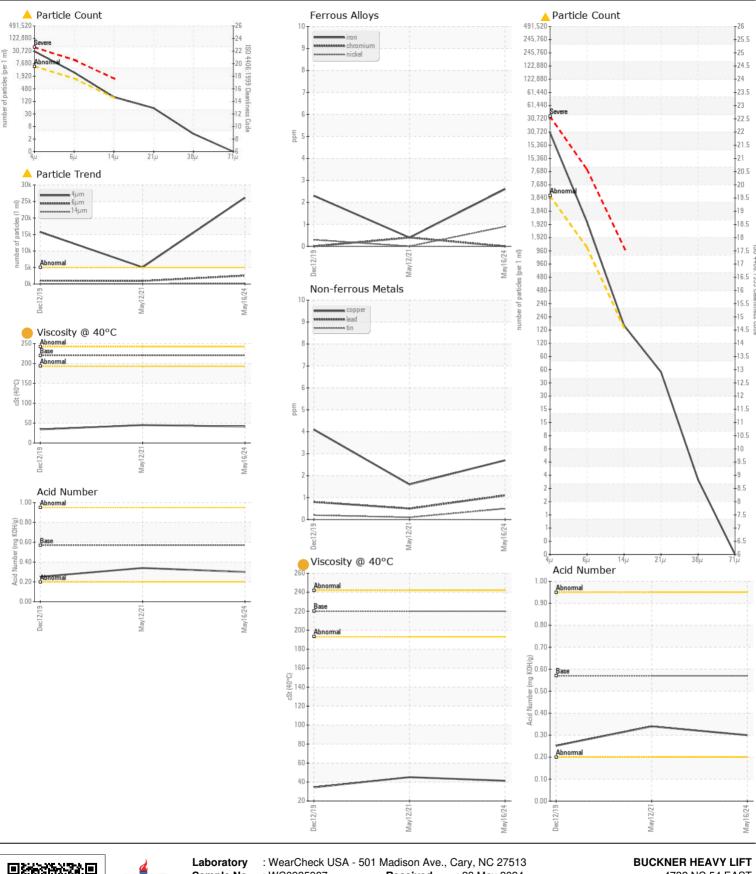
There is a high amount of particulates present in the oil.

### FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0935987	WC0567945	WC0401773
Sample Date		Client Info		16 May 2024	12 May 2021	12 Dec 2019
Machine Age	hrs	Client Info		11866	9847	7896
Oil Age	hrs	Client Info		1000	1000	1000
Filter Age	hrs	Client Info		0	1000	1000
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185m	>65	3	<1	2
Chromium	ppm	ASTM D5185m	>6	0	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>5	2	0	1
Lead	ppm	ASTM D5185m	>45	1	<1	<1
Copper	ppm	ASTM D5185m	>120	3	2	4
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	1	<1	2
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
Water	PPIII	WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	A 26143	<b>5079</b>	▲ 15728
Particles >6µm		ASTM D7647	>1300	2540	928	1046
Particles >14µm		ASTM D7647	>1600	A 169	61	39
Particles >21µm		ASTM D7647	>40	▲ 50	16	9
Particles >38µm		ASTM D7647	>10	3	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>22/19/15</b>	20/17/13	A 21/17/12
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	_	2	0	0
Boron	ppm	ASTM D5185m	5	0	3	2
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	1	<1
Manganese	ppm	ASTM D5185m	05	<1	0	<1
Magnesium	ppm	ASTM D5185m	25	5	10	4
Calcium	ppm	ASTM D5185m	200	67	74	47
Phosphorus	ppm	ASTM D5185m	300	304	317	173
Zinc	ppm	ASTM D5185m	370	376	418	193
Sulfur	ppm	ASTM D5185m	2500	1661	1347	964
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.30	0.340	0.252
Visc @ 40°C	cSt	ASTM D445	220	<b>41.3</b>	6 45.1	94.37



Sample No. Received 4732 NC 54 EAST : WC0935987 : 28 May 2024 59 Lab Number : 06192757 GRAHAM, NC Tested : 30 May 2024 Unique Number : 11049509 : 30 May 2024 - Don Baldridge US 27253-9215 Diagnosed Test Package : CONST Contact: MICHAEL LAWSON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. michaell@bucknercompanies.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)376-8888 F: (336)376-4090 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MICHAEL LAWSON - BUCGRA Page 2 of 2