

Limit/Abn Current

History1

History2

Machine Id HC2234 Component Hydraulic System Flud AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test

UOM

Method

WEAR

All component wear rates are normal.

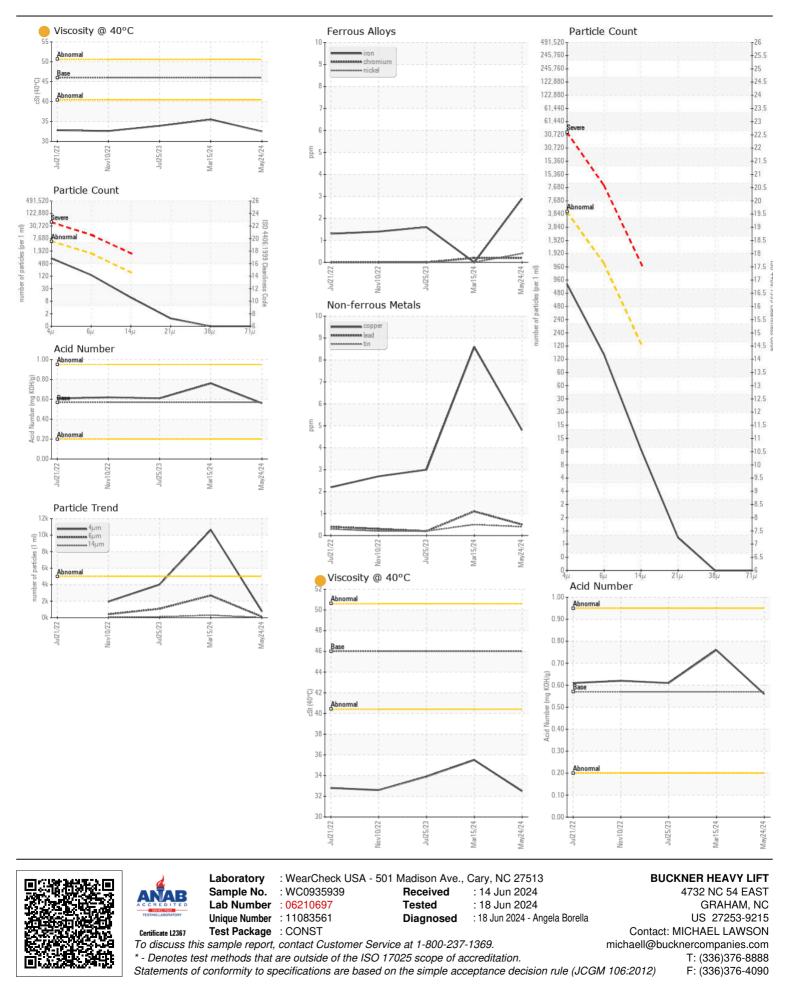
CONTAMINATION

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

	1031	00101	Mothou	LITTIU/AUT	ourrent	Thotory	THOLOTYZ
	Sample Number		Client Info		WC0935939	WC0893024	WC0810515
	Sample Date		Client Info		24 May 2024	15 Mar 2024	25 Jul 2023
	Machine Age	hrs	Client Info		4357	4040	3265
	Oil Age	hrs	Client Info		1092	0	0
	Filter Age	hrs	Client Info		1092	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ATTENTION	ABNORMAL	ATTENTION
	Iron	ppm	ASTM D5185m	>20	3	0	2
	Chromium	ppm	ASTM D5185m	>10	<1	<1	0
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	2	3	<1
	Lead	ppm	ASTM D5185m	>10	<1	1	<1
	Copper	ppm	ASTM D5185m	>75	5	9	3
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>20	4	<1	2
	Potassium	ppm	ASTM D5185m	>20	1	1	1
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>5000	757	1 0635	4010
	Particles >6µm		ASTM D7647	>1300	120	🔺 2686	1077
	Particles >14µm		ASTM D7647	>160	10	<u> </u>	106
	Particles >21µm		ASTM D7647	>40	1	🔺 107	32
	Particles >38µm		ASTM D7647	>10	0	6	0
	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/10	<u> </u>	19/17/14
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	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	-	0	0	0
	Boron	ppm	ASTM D5185m	5	0	0	0
	Barium	ppm	ASTM D5185m	5	1	<1	0
	Molybdenum	ppm	ASTM D5185m	5	96	0	99
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		4	4	0
	Calcium	ppm	ASTM D5185m	200	28	55	37
	Phosphorus	ppm	ASTM D5185m	300	428	253	424
	Zinc	ppm	ASTM D5185m	370	429	266	420
	Sulfur	ppm	ASTM D5185m	2500	1866	3112	2278
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.56	0.76	0.61
	Visc @ 40°C	cSt	ASTM D445	46	32.5	35.5	33.9

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



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