

## **OIL ANALYSIS REPORT**

# Area RXB AGITATOR R102AG (S/N 21309) Gearbox

Fluid

### SCHAEFFER 209 MOLY UNIVERSAL GEARLUBE ISO 220 (24 GAL)

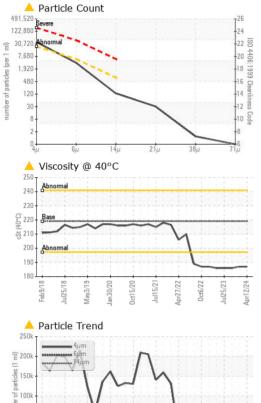
VISCOSITY

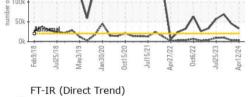
Sample Rating Trend

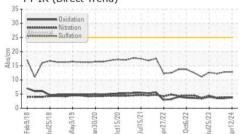
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		PLS0000814	PLS0000811	PLS0000659
Filter the oil if possible through B6=75 quality	Sample Date		Client Info		12 Apr 2024	05 Jan 2024	09 Oct 2023
media. Continue to monitor.	Machine Age	yrs	Client Info		5	5	5
Wear	Oil Age	yrs	Client Info		4	3	3
The wear rate is low and steady.	Oil Changed		Client Info		N/A	N/A	N/A
Contamination	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Particulate level is slightly elevated. Moisture is nil.  Fluid Condition Oil health indicators suggest the oil is acceptable	CONTAMINATIO	N	method	limit/base	current	history1	history2
	Water		WC Method	>0.2	NEG	NEG	NEG
for continued use. Viscosity is steady, BUT oil	WEAR METALS		method	limit/base	current	history1	history2
viscosity is at 15% below stated ISO 220 viscosity evel. No action required presently. Other oil	PQ		ASTM D8184		21	25	17
chemistry factors are acceptable.	Iron	ppm	ASTM D5185m	>200	9	11	10
	Chromium	ppm	ASTM D5185m		0	0	0
	Nickel	ppm	ASTM D5185m	>15	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	2	1
	Lead	ppm	ASTM D5185m	>100	0	0	0
	Copper	ppm	ASTM D5185m	>200	0	<1	0
	Tin	ppm	ASTM D5185m	>25	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	65	26	29	20
	Barium	ppm	ASTM D5185m		<1	<1	0
	Molybdenum	ppm	ASTM D5185m	325	342	353	394
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		<1	3	4
	Calcium	ppm	ASTM D5185m		18	13	78
	Phosphorus	ppm	ASTM D5185m	875	540	596	576
	Zinc	ppm	ASTM D5185m		42	36	56
	Sulfur	ppm	ASTM D5185m	16000	13188	13932	13411
	CONTAMINANTS	6	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	8	9	9
	Sodium	ppm	ASTM D5185m		6	2	4
	Potassium	ppm	ASTM D5185m	>20	8	2	<1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0	0	0
	Nitration	Abs/cm	*ASTM D7624		3.8	3.8	3.7
	Sulfation		*ASTM D7415		12.8	12.8	12.2

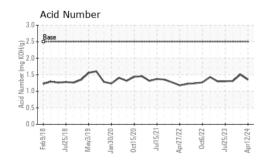


## **OIL ANALYSIS REPORT**







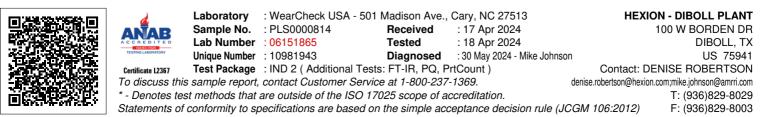


FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>A</b> 32653	45562	▲ 69281
Particles >6µm		ASTM D7647	>5000	3354	3577	▲ 10302
Particles >14µm		ASTM D7647	>640	114	103	214
Particles >21µm		ASTM D7647	>160	27	27	58
Particles >38µm		ASTM D7647	>40	1	1	2
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>A</b> 22/19/14	🔺 23/19/14	▲ 23/21/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		3.8	3.5	3.5
Acid Number (AN)	mg KOH/g	ASTM D8045	2.5	1.35	1.51	1.31
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	<b>FIES</b>	method	limit/base	current	history1	history2
FLUID PROPERT	r <mark>IES</mark> cSt	method ASTM D445	limit/base 219	current ▲ 187	history1	history2

Color



Bottom



Contact/Location: DENISE ROBERTSON - HEXDIB

Page 2 of 2