

## **OIL ANALYSIS REPORT**

Oil Age

### **RX** B **RXB** AGITATOR R102AG (S/N 21309) Component

Gearbox Fluid

### SCHAEFFER 209 MOLY UNIVERSAL GEARLUBE ISO 220 (24 GAI

#### DIAGNOSIS

#### Recommendation

Filter oil if possible using B6=75 filter media or better. Confirm viscosity requirements of the gear. Consider a partial or full change to the correct oil viscosity. No other action required at this time.

#### Wear

Wear particles are low and steady.

#### Contamination

Particle contamination is slightly elevated. Filtration can assist in increasing machine longevity.

#### Fluid Condition

Viscosity is slightly below the ISO rating of the reference fluid. Other fluid indicators are acceptable.

SIS REPO	Sampl	e Rating Tre		VISCOSITY		
<b>5/N 21309)</b> UBE ISO 220 (24			Negeli Janice Ce			
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000811	PLS0000659	PLS0000649
Sample Date		Client Info		05 Jan 2024	09 Oct 2023	25 Jul 2023
Machine Age	yrs	Client Info		5	5	5
Oil Age	yrs	Client Info		3	3	2
Oil Changed		Client Info		N/A	N/A	N/A

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Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		25	17	16
Iron	ppm	ASTM D5185m	>200	11	10	10
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	0
Lead	ppm	ASTM D5185m	>100	0	0	2
Copper	ppm	ASTM D5185m	>200	<1	0	4
Tin	ppm	ASTM D5185m	>25	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2

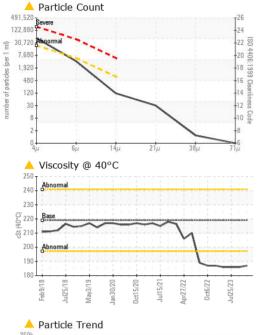
ADDITIVES		methou	innit base	Current	Thistory I	motoryz
Boron	ppm	ASTM D5185m	65	29	20	22
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	325	353	394	407
Manganese	ppm	ASTM D5185m		<1	0	2
Magnesium	ppm	ASTM D5185m		3	4	2
Calcium	ppm	ASTM D5185m		13	78	12
Phosphorus	ppm	ASTM D5185m	875	596	576	626
Zinc	ppm	ASTM D5185m		36	56	24
Sulfur	ppm	ASTM D5185m	16000	13932	13411	17101
CONTAMINANTS		method	limit/base	current	history1	history2

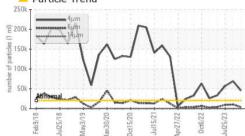
Silicon	ppm	ASTM D5185m	>50	9	9	11
Sodium	ppm	ASTM D5185m		2	4	9
Potassium	ppm	ASTM D5185m	>20	2	<1	3

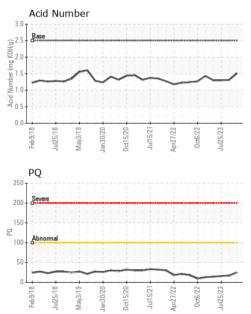
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		3.8	3.7	4.4
Sulfation	Abs/.1mm	*ASTM D7415		12.8	12.2	12.6



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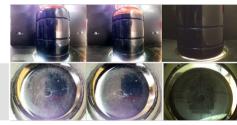




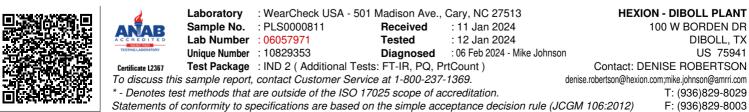
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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>45562</b>	69281	<b>5</b> 7379
Particles >6µm		ASTM D7647	>5000	3577	<b>1</b> 0302	A 9542
Particles >14µm		ASTM D7647	>640	103	214	76
Particles >21µm		ASTM D7647	>160	27	58	10
Particles >38µm		ASTM D7647	>40	1	2	2
Particles >71µm		ASTM D7647	>10	0	1	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>A</b> 23/19/14	▲ 23/21/15	▲ 23/20/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		3.5	3.5	4.0
Acid Number (AN)	mg KOH/g	ASTM D8045	2.5	1.51	1.31	1.30
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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	219	<b>4</b> 187	<b>1</b> 86	<b>1</b> 86
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color



Bottom



Contact/Location: DENISE ROBERTSON - HEXDIB