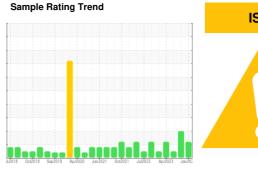


OIL ANALYSIS REPORT

RX C **RXC AGITATOR A106 (S/N 7600468)**

Gearbox

SCHAEFFER 209 MOLY UNIVERSAL GEARLUBE ISO 220 (20 GAL)





DIAGNOSIS

Recommendation

Filter oil if possible using B6=75 filter media or better. Investigate sample procedures and possible sources of contamination. No other action necessary at this time. Resample at next normal interval.

Wear

Wear particles are low, steady, and acceptable.

Contamination

Particle contamination is significantly elevated from previous sample. Filtration can help to extend machine life.

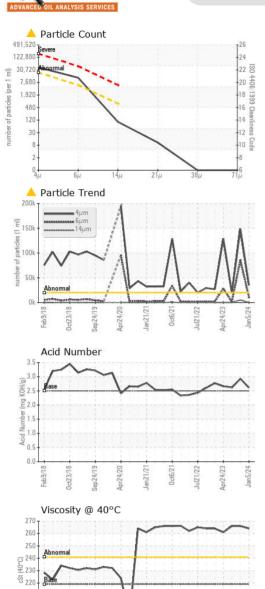
Fluid Condition

Fluid health is acceptable for continued use. Viscosity is slightly above reference viscosity, but otherwise healthy.

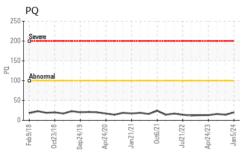
		62018 Oct20			2023 Jan 207	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000812	PLS0000658	PLS0000650
Sample Date		Client Info		05 Jan 2024	09 Oct 2023	25 Jul 2023
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		1	1	1
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION	١	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		20	14	16
Iron	ppm	ASTM D5185m	>200	12	12	11
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	0
Lead	ppm	ASTM D5185m	>100	<1	0	3
Copper	ppm	ASTM D5185m	>200	3	9	11
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
Boron	ppm	ASTM D5185m	65	27	28	23
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	325	395	436	374
Manganese	ppm	ASTM D5185m		<1	0	2
Magnesium	ppm	ASTM D5185m		2	3	3
Calcium	ppm	ASTM D5185m		43	47	48
Phosphorus	ppm	ASTM D5185m	875	1119	1137	1007
Zinc	ppm	ASTM D5185m		17	13	<1
Sulfur	ppm	ASTM D5185m	16000	23293	22373	23416
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	12	10	10
Sodium	ppm	ASTM D5185m		0	2	6
Potassium	ppm	ASTM D5185m	>20	2	1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		4.1	4.1	4.2
Sulfation	Abs/.1mm	*ASTM D7415		15.0	14.5	14.9



OIL ANALYSIS REPORT



FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	4 34921	<u>▲</u> 148784	19626
Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 85006	1247
Particles >14µm		ASTM D7647	>640	87	△ 4985	22
Particles >21µm		ASTM D7647	>160	9	△ 206	6
Particles >38µm		ASTM D7647	>40	0	0	2
Particles >71µm		ASTM D7647	>10	0	0	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>22/21/14</u>	2 4/24/19	21/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		5.1	4.9	5.3
Acid Number (AN)	mg KOH/g	ASTM D8045	2.5	2.61	2.928	2.62
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	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	219	264	266	266
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						



210 200 190



Certificate L2367

Laboratory Sample No. Unique Number: 10829355

: PLS0000812 Lab Number : 06057973

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 11 Jan 2024 : 12 Jan 2024

: 06 Feb 2024 - Mike Johnson

HEXION - DIBOLL PLANT 100 W BORDEN DR

DIBOLL, TX US 75941

Test Package: IND 2 (Additional Tests: FT-IR, PQ, PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369.

denise.robertson@hexion.com; mike.johnson@amrri.comT: (936)829-8029

Contact: DENISE ROBERTSON

* - 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)

F: (936)829-8003