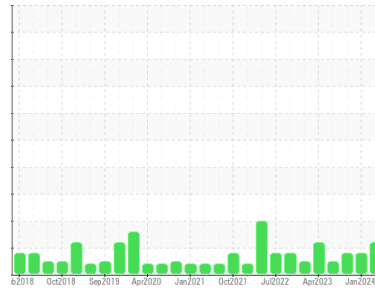


OIL ANALYSIS REPORT

Area
RX A
Machine Id
RXA AGITATOR R101AG (S/N 320417)
Component
Gearbox
Fluid
SCHAEFFER 209 MOLY UNIVERSAL GEARLUBE ISO 220 (19 GAL)

Sample Rating Trend



ISO



DIAGNOSIS

Recommendation

Filter the oil if possible through B6=75 quality media. Continue to monitor.

Wear

The wear rate is low and steady.

Contamination

Particulate level is substantially elevated. Moisture is nil.

Fluid Condition

Oil health indicators suggest the oil is acceptable for continued use.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PLS0000813	PLS0000657	PLS0000660
Sample Date	Client Info		12 Apr 2024	05 Jan 2024	09 Oct 2023
Machine Age	yrs	Client Info	14	13	13
Oil Age	yrs	Client Info	3	4	4
Oil Changed	Client Info		N/A	N/A	N/A
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		23	20	17
Iron	ppm	ASTM D5185m >200	30	31	31
Chromium	ppm	ASTM D5185m >15	0	<1	0
Nickel	ppm	ASTM D5185m >15	0	0	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	5	5	5
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	<1	<1	0
Tin	ppm	ASTM D5185m >25	0	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 65	52	57	56
Barium	ppm	ASTM D5185m	<1	<1	0
Molybdenum	ppm	ASTM D5185m 325	327	354	403
Manganese	ppm	ASTM D5185m	1	1	<1
Magnesium	ppm	ASTM D5185m	1	3	3
Calcium	ppm	ASTM D5185m	65	27	28
Phosphorus	ppm	ASTM D5185m 875	1010	1141	1177
Zinc	ppm	ASTM D5185m	36	19	15
Sulfur	ppm	ASTM D5185m 16000	24352	27894	26902

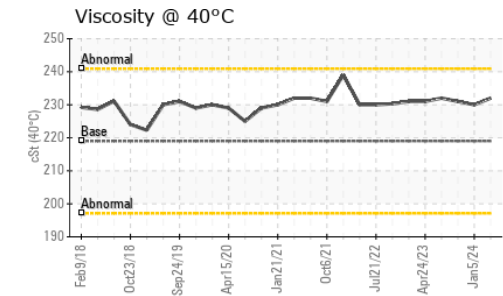
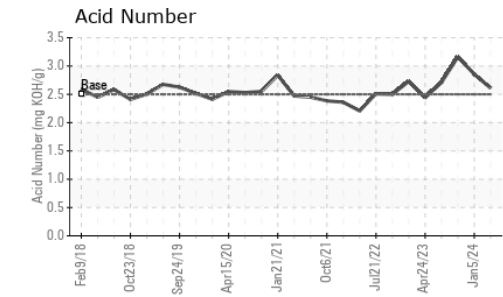
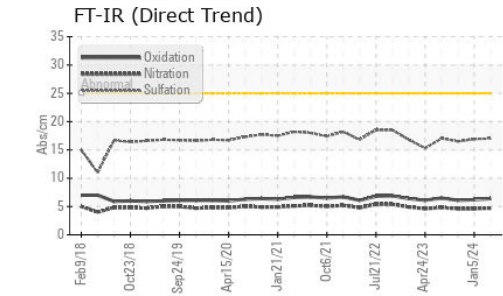
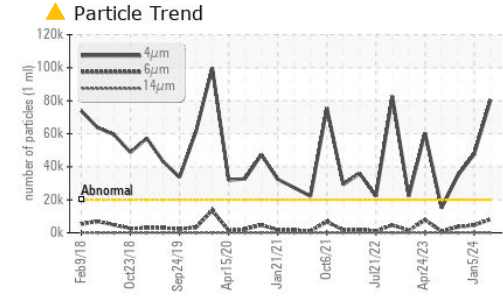
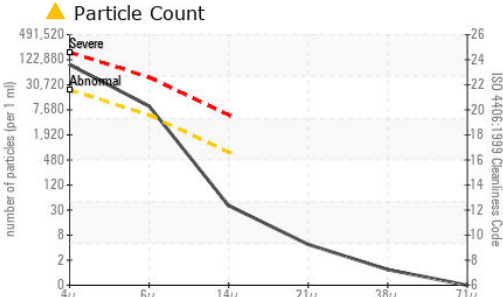
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	6	9	8
Sodium	ppm	ASTM D5185m	5	0	3
Potassium	ppm	ASTM D5185m >20	10	2	1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0	0
Nitration	Abs/cm	*ASTM D7624	4.7	4.6	4.6
Sulfation	Abs./1mm	*ASTM D7415	17.0	16.9	16.5

OIL ANALYSIS REPORT



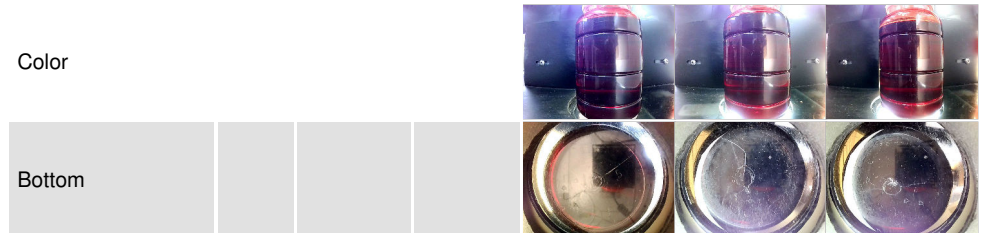
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 80601	▲ 47685	▲ 34632
Particles >6µm	ASTM D7647	>5000	▲ 8203	4566	3536
Particles >14µm	ASTM D7647	>640	34	54	45
Particles >21µm	ASTM D7647	>160	4	10	7
Particles >38µm	ASTM D7647	>40	1	0	1
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/20/12	▲ 23/19/13	▲ 22/19/13

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414		6.4	6.2	6.1
Acid Number (AN)	mg KOH/g ASTM D8045	2.5	2.61	2.856	3.16

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 PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	219	232	230	231

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000813
Lab Number : **06151864**
Unique Number : 10981942
Test Package : IND 2 (Additional Tests: FT-IR, PQ, PrtCount)
Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 30 May 2024 - Mike Johnson

HEXION - DIBOLL PLANT
 100 W BORDEN DR
 DIBOLL, TX
 US 75941

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