



Machine Id
CAPT RICKIE JOHNSON (S/N 7-474128-1)

Component
Port Reduction Gear

Fluid
SCHAEFFER 209 MOLY UNIVERSAL GEARLUBE ISO 220 (135 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0044530	MWM731179	MWM727716
Sample Date		Client Info		04 Jul 2024	20 Mar 2024	05 Jan 2024
Machine Age	hrs	Client Info		47386	44899	79730
Oil Age	hrs	Client Info		44018	41471	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		None	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	88	49	48
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	6	2
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>50	13	12	12
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

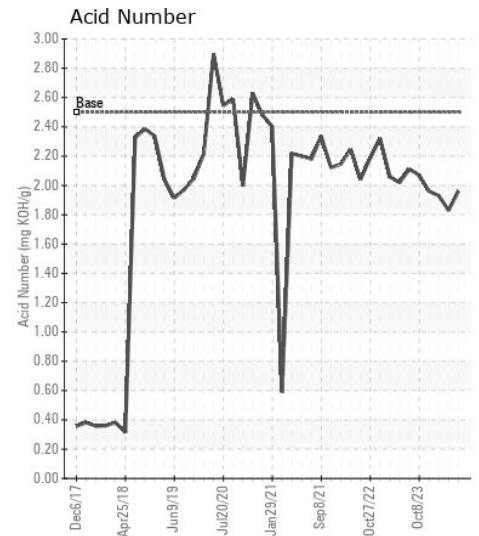
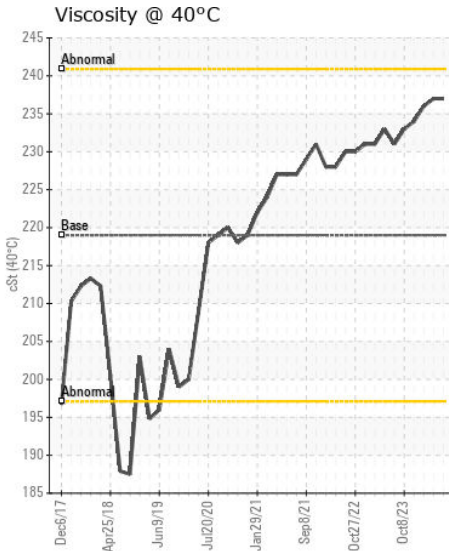
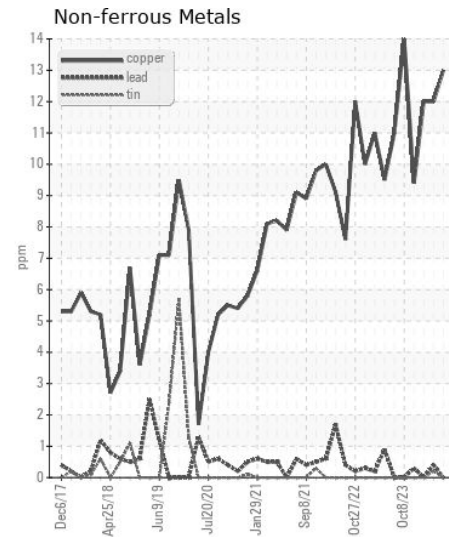
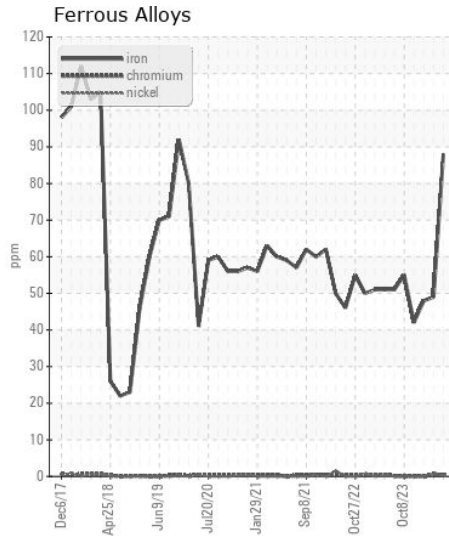
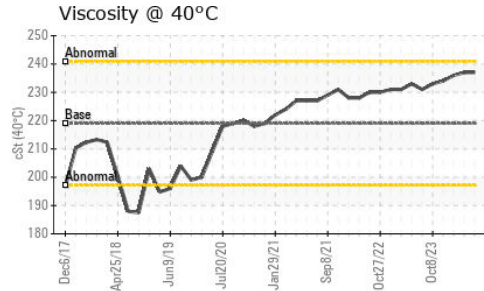
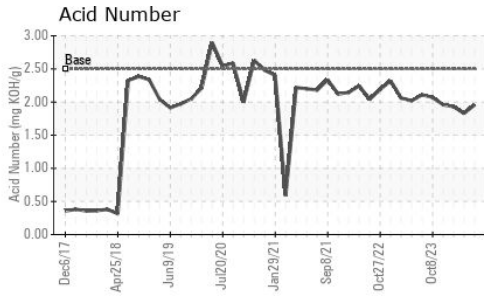
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	16	13	15
Potassium	ppm	ASTM D5185m	>20	3	2	3
Water		WC Method	>0.1	NEG	NEG	NEG
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	4	0
Boron	ppm	ASTM D5185m	65	26	39	42
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m	325	530	532	545
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	5	5
Calcium	ppm	ASTM D5185m		152	177	179
Phosphorus	ppm	ASTM D5185m	875	1023	1035	1076
Zinc	ppm	ASTM D5185m		58	53	32
Sulfur	ppm	ASTM D5185m	16000	19697	21550	22252
Acid Number (AN)	mg KOH/g	ASTM D8045	2.5	1.96	1.83	1.93
Visc @ 40°C	cSt	ASTM D445	219	237	237	236



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0044530
Lab Number : 06237024
Unique Number : 11125858
Test Package : MAR 2

Received : 15 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Wes Davis

AMERICAN COMMERCIAL LINES
 PO BOX 610, 1701 E. MARKET STREET
 JEFFERSONVILLE, IN
 US 47130

Contact: RONALD SCHNEIDER
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

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