



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
RICKEY HUGHES (S/N TSJ00166)

Component
Port Reduction Gear

Fluid
SCHAEFFER 209 MOLY UNIVERSAL GEAR LUBE SAE 90 (270 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0069746	MW0062344	MW0062350
Sample Date		Client Info		28 Jun 2024	12 May 2024	10 Mar 2024
Machine Age	hrs	Client Info		146832	145818	144558
Oil Age	hrs	Client Info		58699	57627	58370
Filter Age	hrs	Client Info		0	57627	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		None	N/A	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	69	57	62
Chromium	ppm	ASTM D5185m	>10	1	2	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	3	3	3
Lead	ppm	ASTM D5185m	>100	4	4	4
Copper	ppm	ASTM D5185m	>50	5	4	7
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

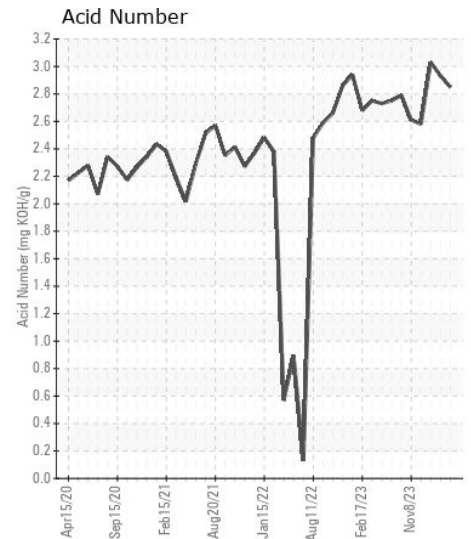
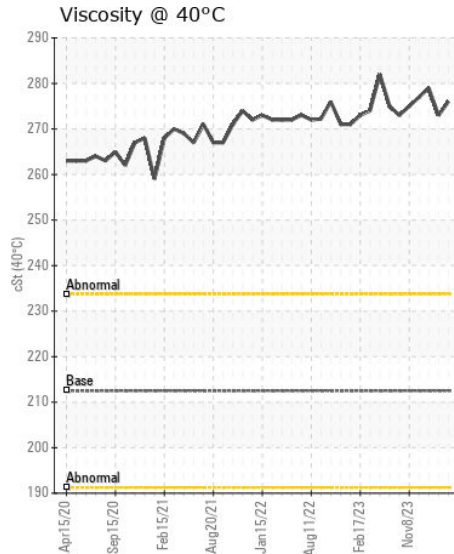
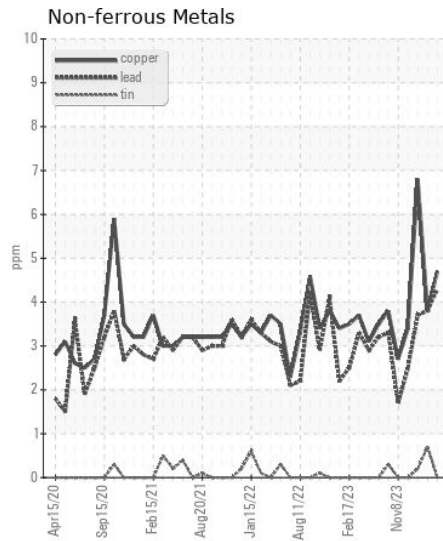
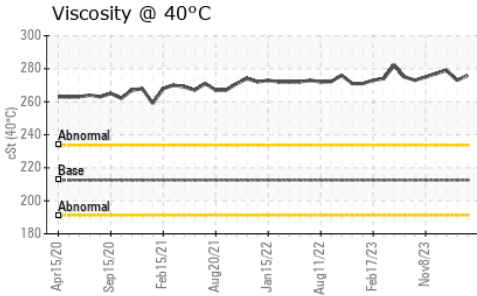
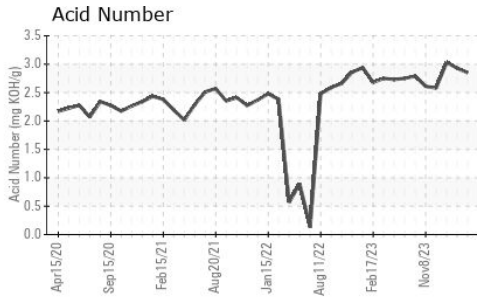
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>50	4	5	5
Potassium	ppm	ASTM D5185m	>20	6	7	6
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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		11	7	7
Boron	ppm	ASTM D5185m		15	18	16
Barium	ppm	ASTM D5185m		1	<1	<1
Molybdenum	ppm	ASTM D5185m		315	315	357
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	3	5
Calcium	ppm	ASTM D5185m		35	36	108
Phosphorus	ppm	ASTM D5185m		897	879	889
Zinc	ppm	ASTM D5185m		47	47	76
Sulfur	ppm	ASTM D5185m		15750	15666	16252
Acid Number (AN)	mg KOH/g	ASTM D8045		2.85	2.93	3.03
Visc @ 40°C	cSt	ASTM D445	212.5	276	273	279



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0069746
Lab Number : 06228825
Unique Number : 11112318
Test Package : MAR 2

Received : 05 Jul 2024
Tested : 08 Jul 2024
Diagnosed : 08 Jul 2024 - Don Baldridge

AMERICAN COMMERCIAL LINES
 PO BOX 610, 1701 E. MARKET STREET
 JEFFERSONVILLE, IN
 US 47130
 Contact: RONALD SCHNEIDER
 ronald.schneider@bargeacbl.com

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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