

WEAR SEVERE CONTAMINATION SEVERE FLUID CONDITION NORMAL

RMR-Newport 23617 LIEBHERR A934C 040933-1007

Swing Drive

GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated. Bearing and/or bushing wear is indicated.

CONTAMINATION

There is a high concentration of water present in the oil.

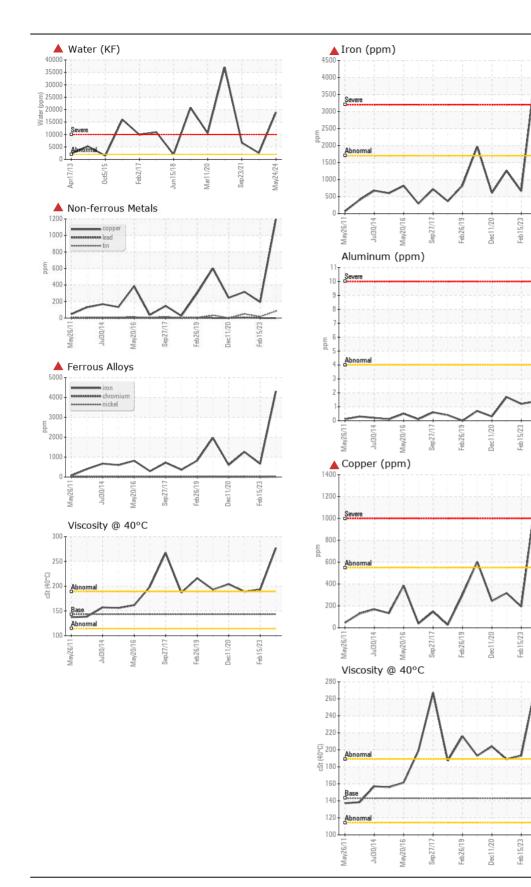
FLUID CONDITION

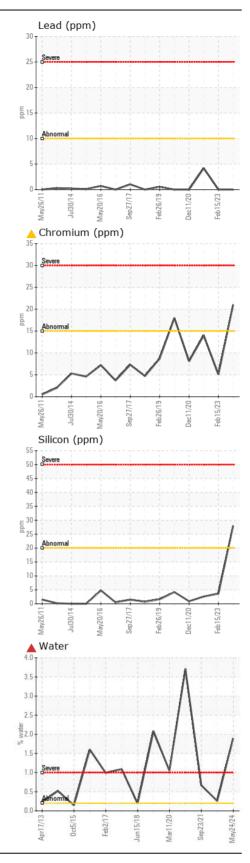
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0017643	DJJ0016257	DJJ0004069
Sample Date		Client Info		24 May 2024	15 Feb 2023	23 Sep 2021
Machine Age	hrs	Client Info		13856	12299	10715
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	MARGINAL	ABNORMAL
			4700			
Iron	ppm	ASTM D5185m	>1700	4301	662	1260
Chromium	ppm	ASTM D5185m	>15	<u> </u>	5	14
Nickel	ppm	ASTM D5185m	>4	▲ 5 0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	4	0	0	0
Aluminum	ppm	ASTM D5185m	>4	1	1	2
Lead	ppm	ASTM D5185m	>10	0	0	4
Copper	ppm	ASTM D5185m	>550	1196	193	▲ 317
Tin	ppm	ASTM D5185m	>30	8 3	16	▲ 50
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	28	4	3
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.2	1.89	▲ 0.256	▲ 0.667
ppm Water	ppm	ASTM D6304	>2000	18900	2 560	▲ 6670
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	▲ MODER
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	4 0.2%	0.2%	▲ 0.2%
Sodium	ppm	ASTM D5185m	>170	<1	2	<1
Boron	ppm	ASTM D5185m	400	2	<1	5
Barium	ppm	ASTM D5185m	200	8	4	0
Molybdenum	ppm	ASTM D5185m	12	ہ <1	<1	0
Manganese	ppm	ASTM D5185m	12	33	5	11
Magnesium		ASTM D5185m	12	4	<1	0
Calcium	ppm	ASTM D5185m	150	4 23	18	5
Phosphorus	ppm	ASTM D5185m	1650	23 2238	2196	5 1927
	ppm		125	32	17	28
Zinc Sulfur	ppm	ASTM D5185m			35871	28 22641
	ppm oSt	ASTM D5185m	22500	33349 277		
Visc @ 40°C	cSt	ASTM D445	143	277	193 N ROWDEN	

Report Id: RIVNEW [WUSCAR] 06197133 (Generated: 06/04/2024 22:05:02) Rev: 1

Contact/Location: RYAN BOWDEN - RIVNEW





RIVER METALS RECYCLING - NEWPORT Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received P.O. BOX 72-220 : DJJ0017643 : 31 May 2024 : 06197133 Tested Lab Number NEWPORT, KY : 03 Jun 2024 Unique Number : 11059256 : 04 Jun 2024 - Don Baldridge US 41072 Diagnosed Test Package : MOBCE (Additional Tests: KF) Contact: RYAN BOWDEN Certificate L2367 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. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (859)291-0086

Contact/Location: RYAN BOWDEN - RIVNEW Page 2 of 2