WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

CJL Component 2 Slewing Gearbox Fluid Flui

Test UOM Method UmitAba Current History2 History2 WW0054912 WW005224 WW005241 WW005224 WW005224 WW005241 WW005224 WW005241 WW005224 WW005241 WW005241 WW005224	GEAR OIL ISO 220 (GAL)							
Sample Date	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Debing tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forovard information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monifor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil o	being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your	Sample Number		Client Info		MW0064912	MW0052224	MW0035814
to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resemble at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Visual Normal No		Sample Date		Client Info		07 May 2024	12 Jul 2023	20 Mar 2023
Information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and visual please specify the brand, type, and visual please specify the oil on your next sample. Please specify the brand, type, and visual please specify the brand, type, and visual please specify the brand, type, and visual please specify the oil on your next sample. Please specify the oil on your next sa		Machine Age	hrs	Client Info		27907	26350	25819
Post service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Cilent Info		Oil Age	hrs	Client Info		0	0	0
Filter Changed Sample. Please specify the brand, type, and viscosity of the oil on your next sample. Filter Changed Sample Status		Filter Age	hrs	Client Info		0	0	0
Pilter Changed Client Info NA NA NA NA NA NA NA N		Oil Changed		Client Info		N/A	N/A	N/A
NORMAL N		Filter Changed		Client Info		N/A	N/A	N/A
Chromium ppm ASTM D5185m >10 0 0 0 0 0 0 0 0 0		Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >10 0 0 0 0 0 0 0 0 0	WEAR	Iron	ppm	ASTM D5185m	>50	4	17	8
Nickel ppm ASTM D5185m 0 0 0 0 0 0 0 0 0		Chromium		ASTM D5185m	>10		0	0
Titanium		Nickel				0	0	0
Aluminum ppm ASTM D5185m 0 <1 0		Titanium		ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >15 0 0 0 0		Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >10 3 1 0 Tin ppm ASTM D5185m >10 <1 0 0 Vanadium ppm ASTM D5185m >10 <1 0 0 Vanadium ppm ASTM D5185m 0 <1 0 0 White Metal scalar *Visual NONE NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE There is no indication of any contamination in the oil.		Aluminum	ppm	ASTM D5185m		0	<1	0
Tin		Lead	ppm	ASTM D5185m	>15	0	0	0
Vanadium ppm ASTM D5185m NONE		Copper	ppm	ASTM D5185m	>10	3	1	0
White Metal scalar *Visual NONE NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON		Tin	ppm	ASTM D5185m	>10	<1	0	0
Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >25 4 <1 <1 Potassium ppm ASTM D5185m >20 2 0 0 Water WC Method >0.2 NEG NEG NEG NEG Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON		Vanadium	ppm	ASTM D5185m		0	<1	0
CONTAMINATION There is no indication of any contamination in the oil. Silicon ppm ASTM D5185m >25 4 < 1 <1 Potassium ppm ASTM D5185m >20 2 0 0 Water WC Method >0.2 NEG NEG NEG Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
There is no indication of any contamination in the oil. Potassium ppm ASTM D5185m >20 2 0 0 Water WC Method >0.2 NEG NEG NEG Silt scalar *Visual NONE 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 NORML Odor scalar *Visual NORML NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG NEG		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Water WC Method >0.2 NEG NEG NEG Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON								
Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE 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 NORML Emulsified Water scalar *Visual >0.2 NEG NEG NEG	There is no indication of any contamination in the oil.		ppiii				-	
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Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORML <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
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					NORML		NORML	NORML
FLUID CONDITION Sodium ppm ASTM D5185m 1 <1 <1		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium ppm ASIMUDIRSM 1 <1 <1	FLUID CONDITION	O a diama		AOTM DE40E				
The ANI level is accordable for this fluid. The condition of the cit is Boron ppm ASTM D5185m 50 19 12 12	The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.				ΕO			
The AN level is acceptable for this fluid. The condition of the on is								
5. A.								
		•			13			
Manganese ppm ASTM D5185m <1		_			50			
Calcium ppm ASTM D5185m 50 0 1 2		•						
Phosphorus ppm ASTM D5185m 350 264 246 221								
Zinc ppm ASTM D5185m 100 0 0 9								
Sulfur ppm ASTM D5185m 12500 9972 7804 7309								
Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.77 0.64 0.70								

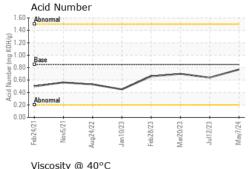
218

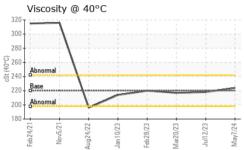
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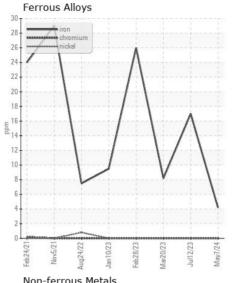
cSt ASTM D445 220

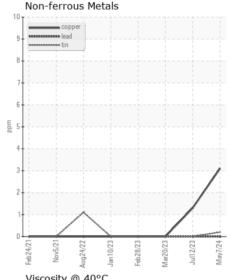
Visc @ 40°C

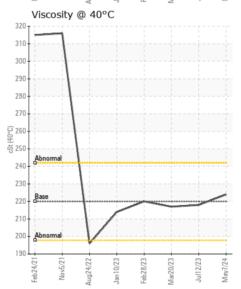
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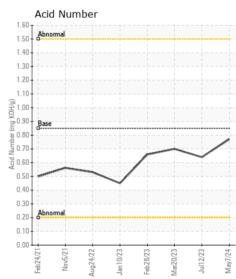














Certificate L2367

Laboratory

Sample No.

Test Package : MAR 2

: MW0064912 Lab Number : 06214907 Unique Number : 11087771

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024 **Tested**

: 20 Jun 2024 Diagnosed : 20 Jun 2024 - Wes Davis

AMERICAN RIVER TRANSPORTATION CO.

P.O. BOX 2889 ST. LOUIS, MO US 63111

Contact: BRIAN GRIEWING brian.griewing@adm.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) F: (314)481-5278

Contact/Location: BRIAN GRIEWING - AMESAI

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