



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
CGL
Machine Id
CGL
Component
Starboard Reduction Gear
Fluid
GEAR OIL ISO 320 (215 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 320. Please confirm.

WEAR

All component wear rates are normal.

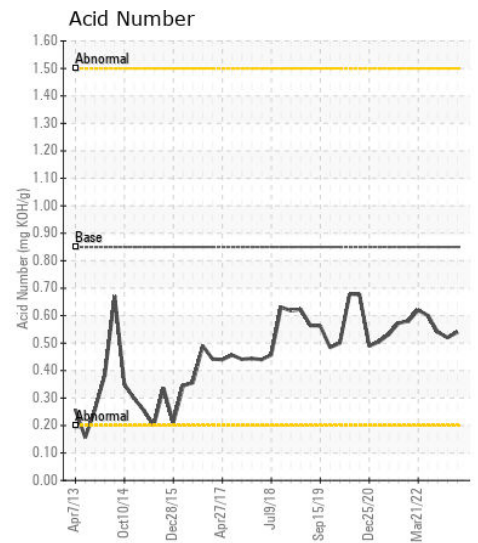
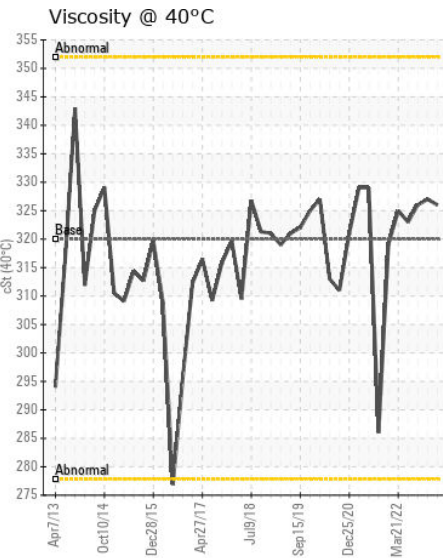
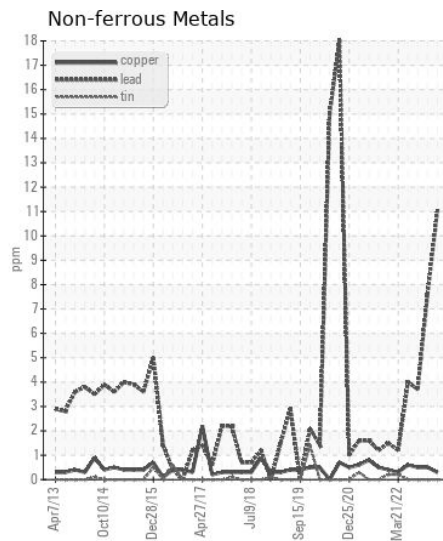
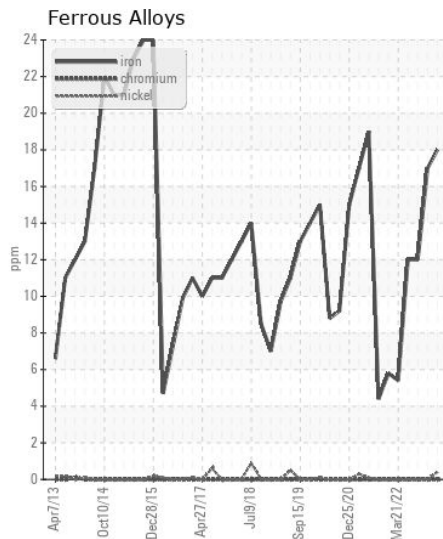
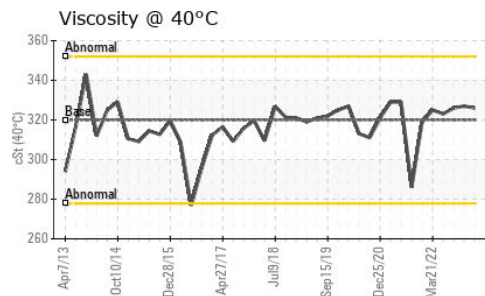
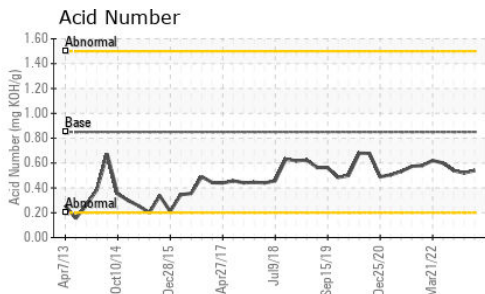
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0050819	MW0043935	MW0043984
Sample Date		Client Info		10 Jan 2024	10 Oct 2023	20 Dec 2022
Machine Age	hrs	Client Info		15404	13189	429111
Oil Age	hrs	Client Info		15404	13189	11087
Filter Age	hrs	Client Info		15404	0	11087
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		None	None	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>200	18	17	12
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		<1	0	0
Lead	ppm	ASTM D5185m		11	8	4
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m		2	<1	1
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		5	3	0
Boron	ppm	ASTM D5185m	50	4	3	1
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	50	2	0	<1
Calcium	ppm	ASTM D5185m	50	15	45	15
Phosphorus	ppm	ASTM D5185m	350	267	260	221
Zinc	ppm	ASTM D5185m	100	0	<1	<1
Sulfur	ppm	ASTM D5185m	12500	8251	7672	6774
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.54	0.52	0.54
Visc @ 40°C	cSt	ASTM D445	320	326	327	326



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0050819
Lab Number : 06074972
Unique Number : 10857063
Test Package : MAR 2

Received : 30 Jan 2024
Tested : 31 Jan 2024
Diagnosed : 31 Jan 2024 - Wes Davis

AMERICAN RIVER TRANSPORTATION CO.
 P.O. BOX 2889
 ST. LOUIS, MO
 US 63111
 Contact: JOSH BARRETT
 joshua.barrett@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)

T:
 F: (314)481-5278