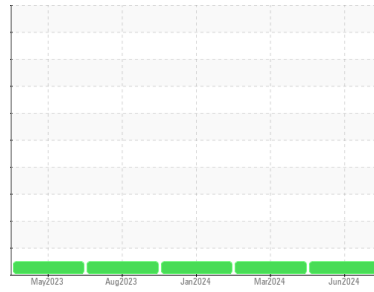


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
TOWER 4S (S/N 002167791-1-1)
 Component
Left Gearbox
 Fluid
SHELL MORLINA S4 B 220 (18 GAL)

DIAGNOSIS

- Recommendation**
 Resample at the next service interval to monitor.
- 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	TO60002782	TO60002412	TO60001393
Sample Date	Client Info	18 Jun 2024	25 Mar 2024	04 Jan 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	25	15	16
Iron	ppm	ASTM D5185m >200	0	0
Chromium	ppm	ASTM D5185m >15	0	0
Nickel	ppm	ASTM D5185m >15	0	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >25	0	0
Lead	ppm	ASTM D5185m >100	0	0
Copper	ppm	ASTM D5185m >200	0	0
Tin	ppm	ASTM D5185m >25	0	<1
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	<1	0
Magnesium	ppm	ASTM D5185m	0	<1
Calcium	ppm	ASTM D5185m	0	0
Phosphorus	ppm	ASTM D5185m	302	309
Zinc	ppm	ASTM D5185m	0	0
Sulfur	ppm	ASTM D5185m	800	746

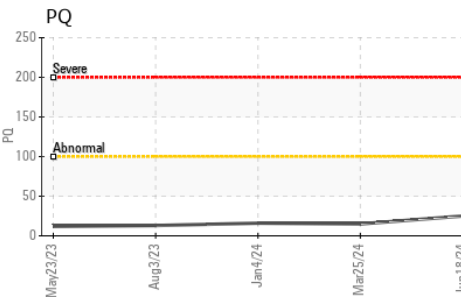
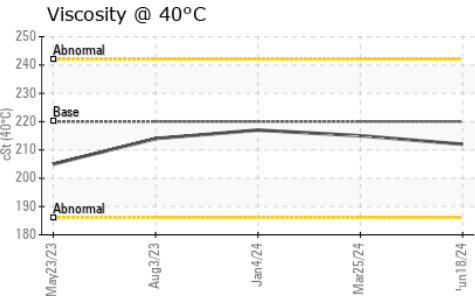
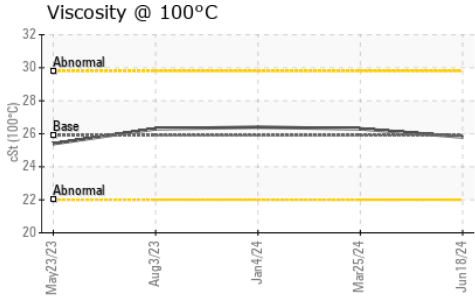
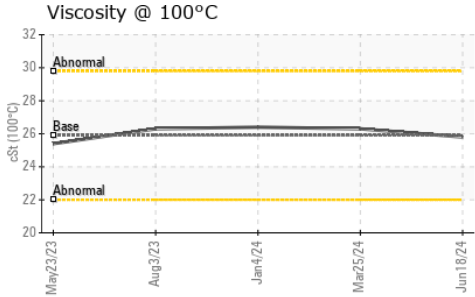
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	2	<1
Sodium	ppm	ASTM D5185m	<1	0
Potassium	ppm	ASTM D5185m >20	2	0

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.83	---




OIL ANALYSIS REPORT

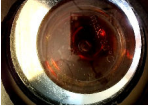




VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

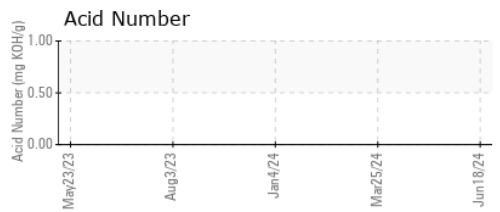
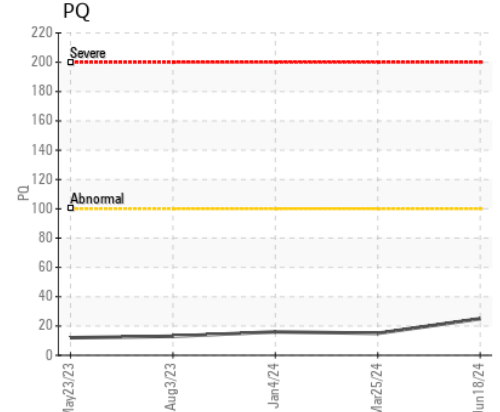
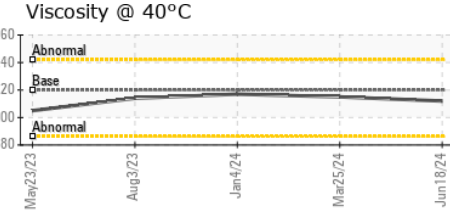
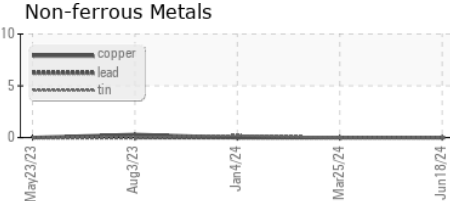
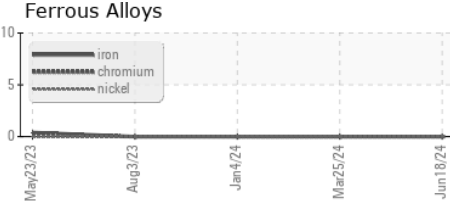
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	215	217
Visc @ 100°C	cSt	ASTM D445	25.9	26.3	26.4
Viscosity Index (VI)	Scale	ASTM D2270	149	155	155

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002782 **Received** : 19 Jun 2024
Lab Number : 06214726 **Tested** : 20 Jun 2024
Unique Number : 11087590 **Diagnosed** : 20 Jun 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

GLAD MANUFACTURING
 1700 N 13TH ST
 ROGERS, AR
 US 72756
 Contact: CLAY OSTERHOUT
 clay.osterhout@clorox.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)