



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
MACK GU713 V96
Component
Front Differential
Fluid
GEAR OIL SAE 80W140 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206229	JR0178500	JR0144802
Sample Date		Client Info		26 Jun 2024	21 Dec 2023	24 Oct 2023
Machine Age	hrs	Client Info		17445	16959	0
Oil Age	hrs	Client Info		2767	2283	1991
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1100	157	107	60
Iron	ppm	ASTM D5185m	>1200	190	190	142
Chromium	ppm	ASTM D5185m	>8	<1	0	<1
Nickel	ppm	ASTM D5185m	>20	3	2	2
Titanium	ppm	ASTM D5185m	>4	<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	8	5	7
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	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

CONTAMINATION

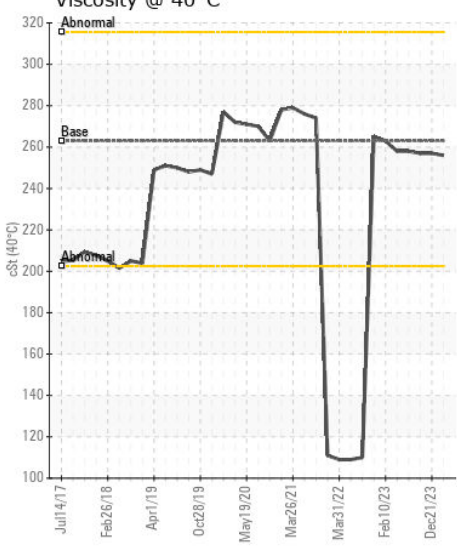
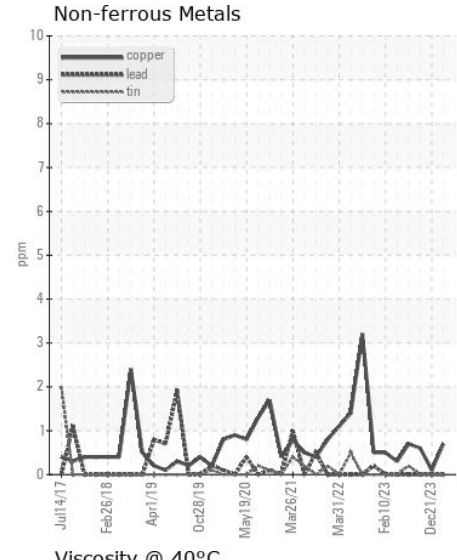
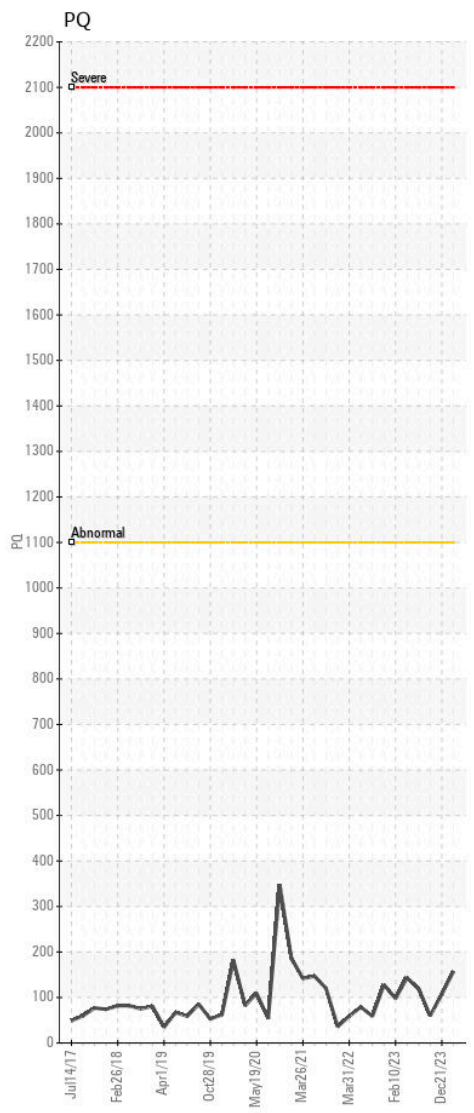
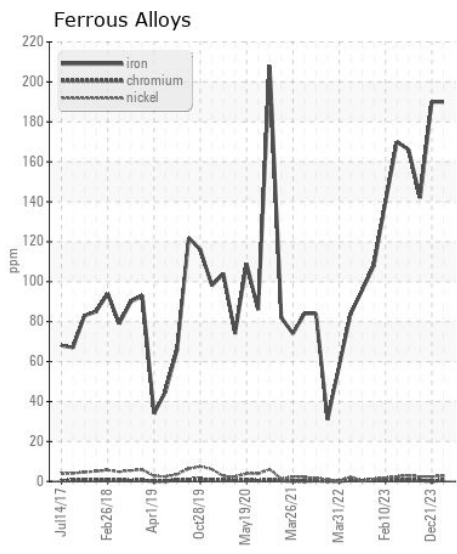
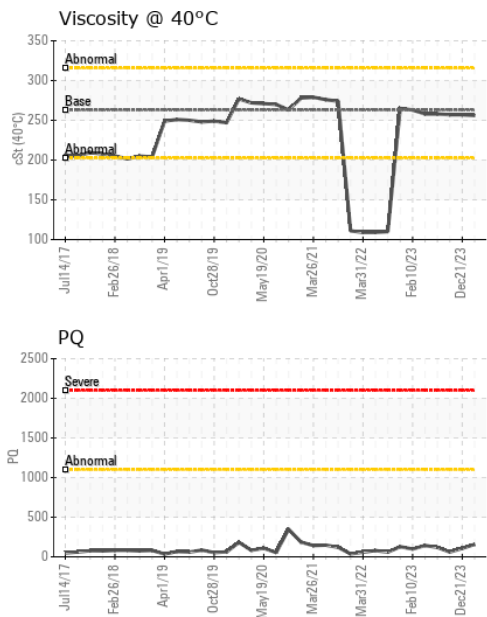
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>230	114	97	108
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>.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	>.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		12	12	13
Boron	ppm	ASTM D5185m	400	258	250	270
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	3
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m	12	0	0	14
Calcium	ppm	ASTM D5185m	150	0	3	21
Phosphorus	ppm	ASTM D5185m	1650	1077	1042	1084
Zinc	ppm	ASTM D5185m	125	0	0	22
Sulfur	ppm	ASTM D5185m	22500	17993	19800	18183
Visc @ 40°C	cSt	ASTM D445	263	256	257	257



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206229 **Received** : 02 Jul 2024
Lab Number : 06226543 **Tested** : 03 Jul 2024
Unique Number : 11110036 **Diagnosed** : 03 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

MATTHEWS CONSTRUCTION
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 ROCK HILL, SC
 US 29732
 Contact: Tad Clinton
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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.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)