



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
MACK GU713 V98
Component
Transmission (Manual)
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		JR0206221	JR0203828	JR0178370
Sample Date		Client Info		26 Jun 2024	28 Feb 2024	20 Sep 2023
Machine Age	hrs	Client Info		17006	16606	16043
Oil Age	hrs	Client Info		400	4165	3602
Filter Age	hrs	Client Info		400	0	0
Oil Changed		Client Info		Not Changed	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	>95	68	62	38
Iron	ppm	ASTM D5185m	>200	54	116	117
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	7	5
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>225	0	3	3
Tin	ppm	ASTM D5185m	>10	0	<1	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

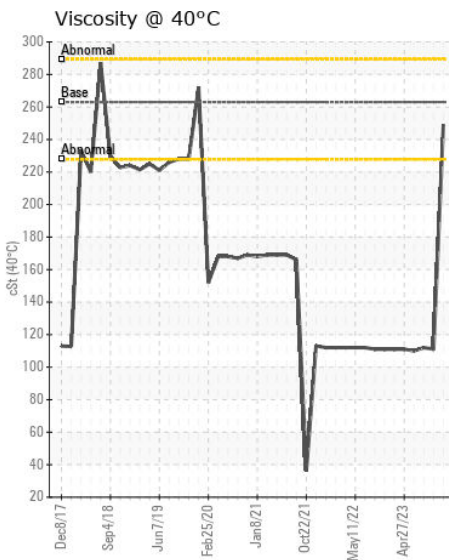
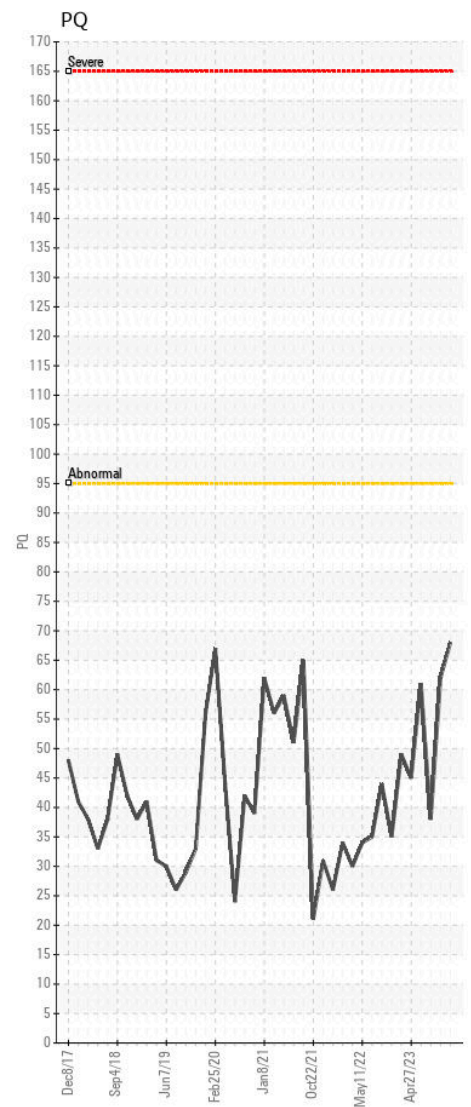
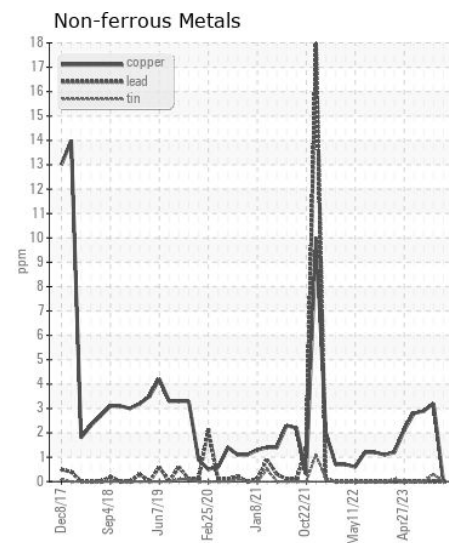
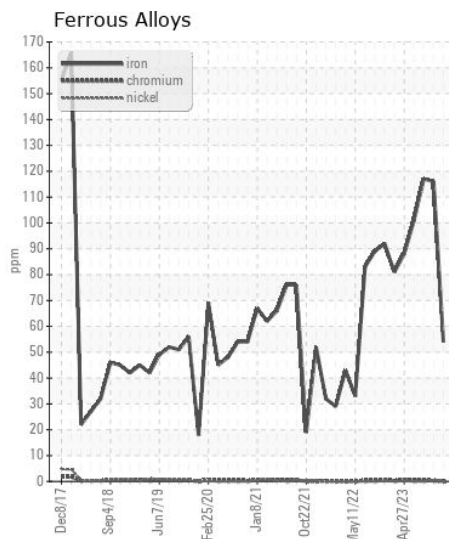
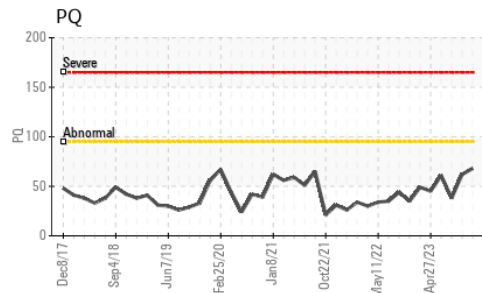
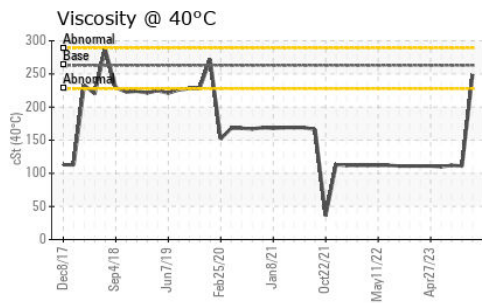
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	17	17	15
Potassium	ppm	ASTM D5185m	>20	2	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	2	<1
Boron	ppm	ASTM D5185m	400	268	281	362
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	0
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m	12	2	2	<1
Calcium	ppm	ASTM D5185m	150	9	7	<1
Phosphorus	ppm	ASTM D5185m	1650	1124	1326	1313
Zinc	ppm	ASTM D5185m	125	1	2	2
Sulfur	ppm	ASTM D5185m	22500	22786	18344	23279
Visc @ 40°C	cSt	ASTM D445	263	249	111	112



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0206221

Lab Number : 06227699

Unique Number : 11111192

Test Package : CONST (Additional Tests: PQ)

Received : 03 Jul 2024

Tested : 05 Jul 2024

Diagnosed : 05 Jul 2024 - Wes Davis

MATTHEWS CONSTRUCTION

127 GRAYSON RD

ROCK HILL, SC

US 29732

Contact: Tad Clinton

tcClinton@matthewsconstructionco.com

T: (803)207-5607

F:

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)