



WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HAMM H2840111
 Component
Drum Gearbox
 Fluid
WIRTGEN SPECIAL DRIVE OIL (--- QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217617	JR0182039	JR0137128
Sample Date		Client Info		31 May 2024	01 Aug 2023	20 Jul 2022
Machine Age	hrs	Client Info		2073	436	436
Oil Age	hrs	Client Info		0	436	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	None	Not Changd
Sample Status				SEVERE	SEVERE	NORMAL

WEAR

Gear wear is indicated. Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		51	58	93
Iron	ppm	ASTM D5185m	>200	▲ 2094	▲ 1862	69
Chromium	ppm	ASTM D5185m	>10	▲ 28	▲ 29	<1
Nickel	ppm	ASTM D5185m	>10	2	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m		<1	2	2
Lead	ppm	ASTM D5185m		▲ 148	▲ 307	<1
Copper	ppm	ASTM D5185m		▲ 3508	▲ 355	54
Tin	ppm	ASTM D5185m		▲ 41	▲ 18	3
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

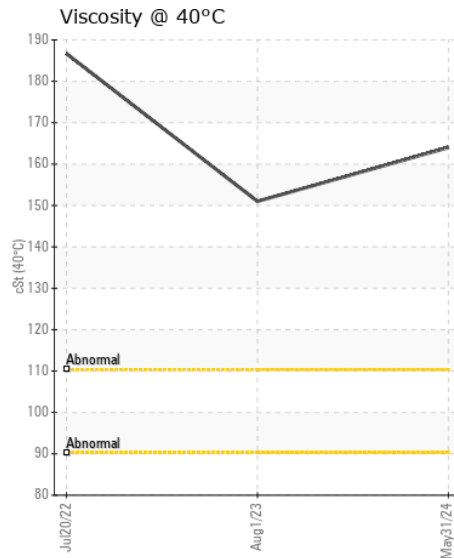
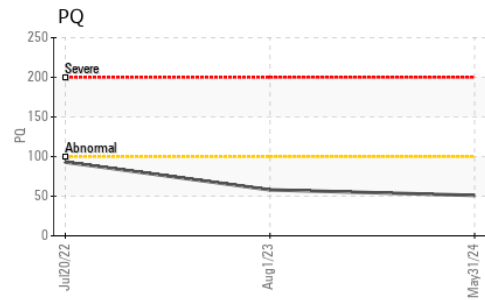
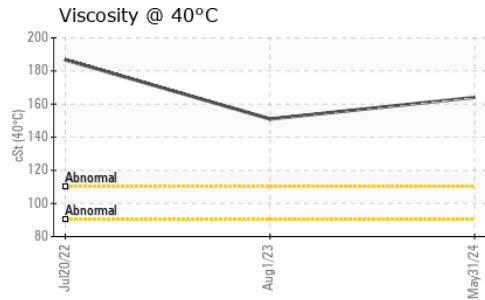
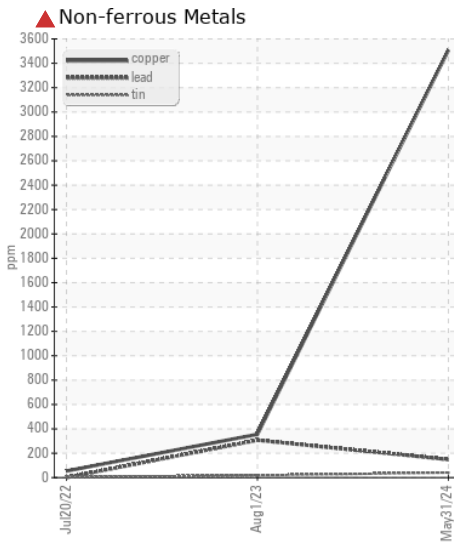
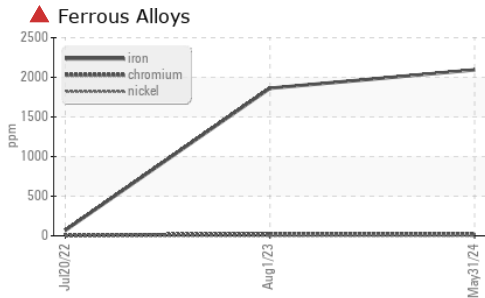
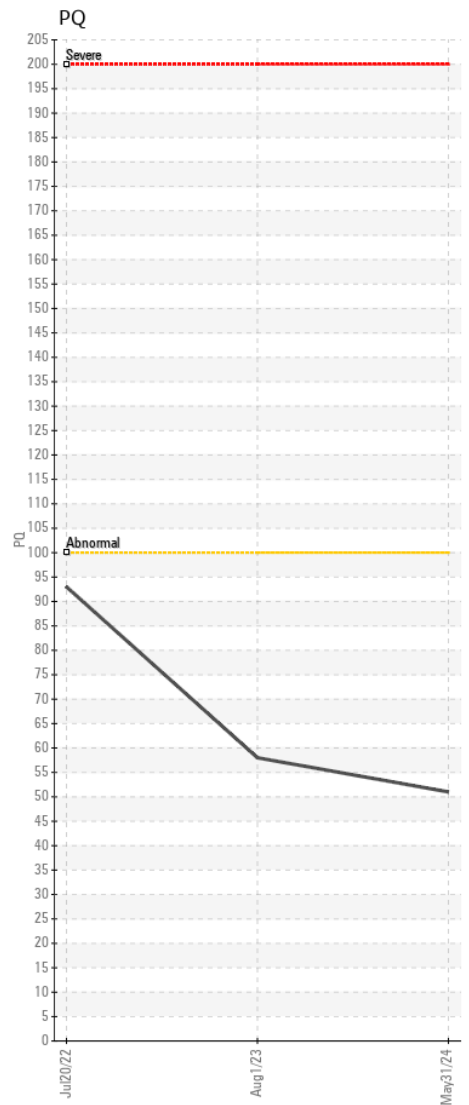
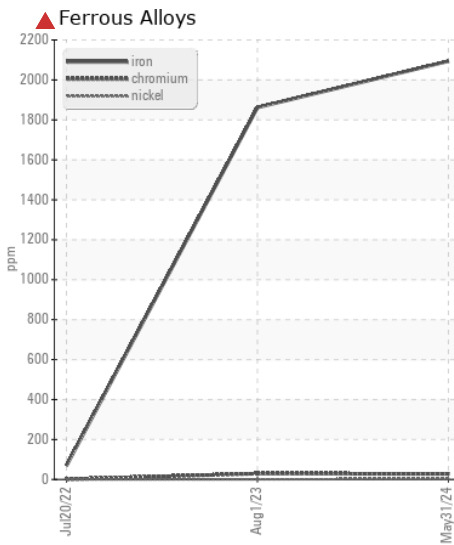
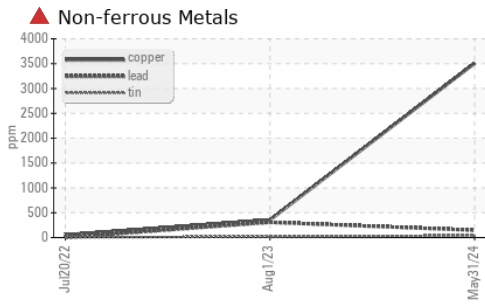
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		13	10	14
Potassium	ppm	ASTM D5185m	>20	3	2	1
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

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		5	3	8
Boron	ppm	ASTM D5185m		150	29	33
Barium	ppm	ASTM D5185m		8	10	0
Molybdenum	ppm	ASTM D5185m		3	<1	0
Manganese	ppm	ASTM D5185m		14	19	4
Magnesium	ppm	ASTM D5185m		4	0	56
Calcium	ppm	ASTM D5185m		6	30	92
Phosphorus	ppm	ASTM D5185m		1264	1129	1762
Zinc	ppm	ASTM D5185m		78	121	56
Sulfur	ppm	ASTM D5185m		25830	27354	25748
Visc @ 40°C	cSt	ASTM D445		164	151	186.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217617 **Received** : 31 May 2024
Lab Number : 06196961 **Tested** : 03 Jun 2024
Unique Number : 11059084 **Diagnosed** : 04 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)