



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W52619 JR CASKEY]
 Machine Id
HAMM GRW180I H2280193
 Component
Right Final Drive
 Fluid
GEAR OIL ISO 220 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224936	JR0224937	---
Sample Date		Client Info		21 Jun 2024	21 Jun 2024	---
Machine Age	hrs	Client Info		1215	1215	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		60	40	---
Iron	ppm	ASTM D5185m	>500	155	147	---
Chromium	ppm	ASTM D5185m	>10	2	2	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>25	3	3	---
Lead	ppm	ASTM D5185m	>25	1	1	---
Copper	ppm	ASTM D5185m	>50	2	2	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

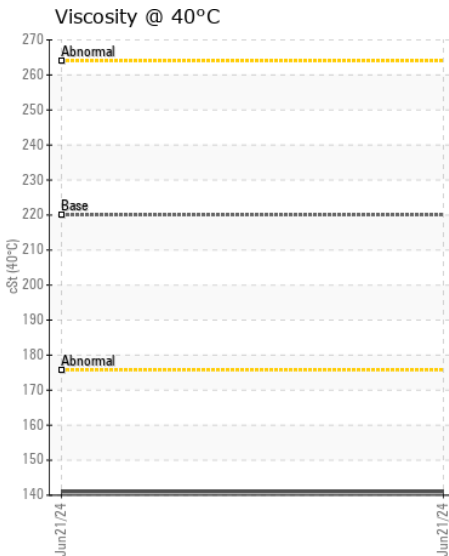
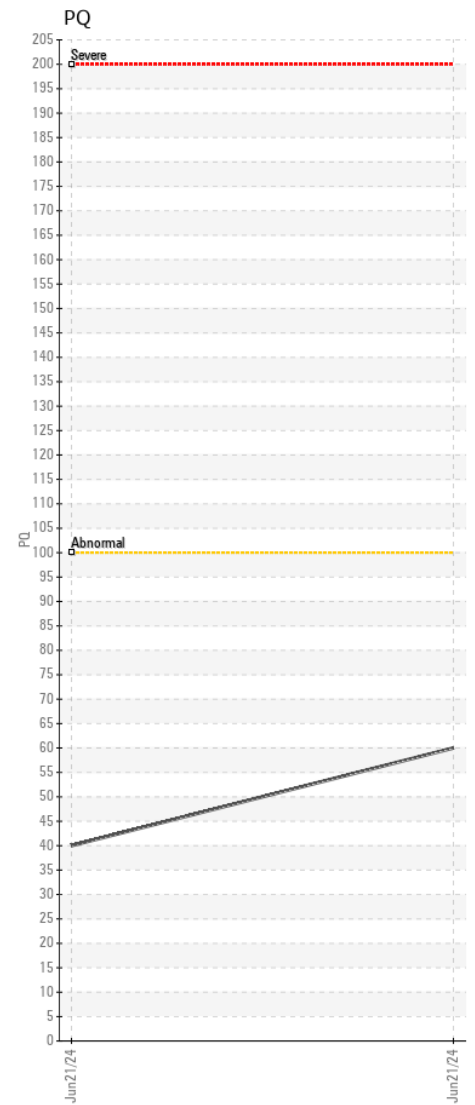
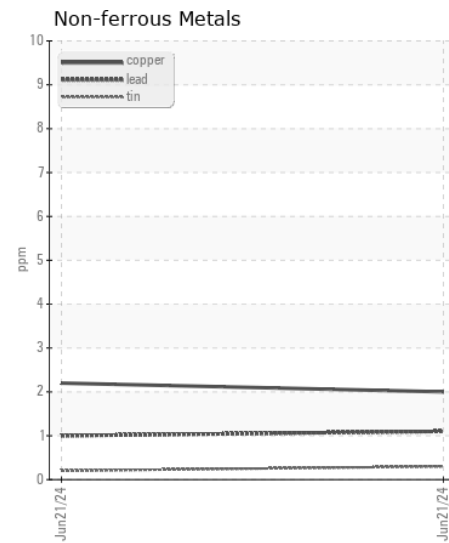
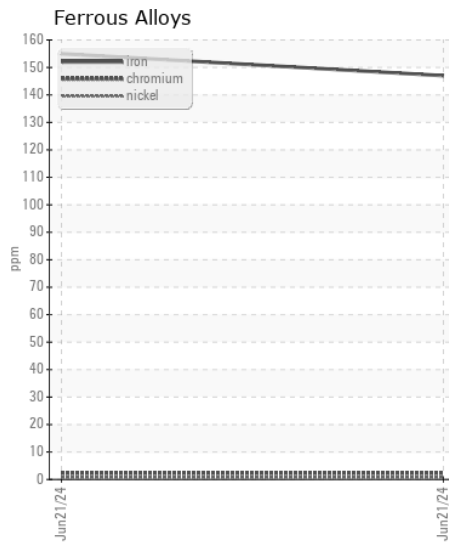
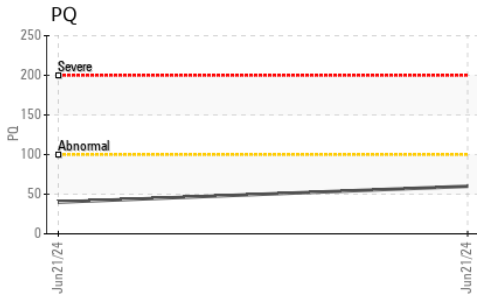
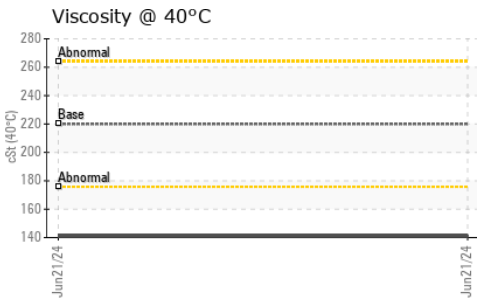
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	2	2	---
Potassium	ppm	ASTM D5185m	>20	3	3	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
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	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		9	5	---
Boron	ppm	ASTM D5185m	50	<1	<1	---
Barium	ppm	ASTM D5185m	15	2	3	---
Molybdenum	ppm	ASTM D5185m	15	1	1	---
Manganese	ppm	ASTM D5185m		4	4	---
Magnesium	ppm	ASTM D5185m	50	6	6	---
Calcium	ppm	ASTM D5185m	50	103	105	---
Phosphorus	ppm	ASTM D5185m	350	259	255	---
Zinc	ppm	ASTM D5185m	100	33	34	---
Sulfur	ppm	ASTM D5185m	12500	22410	21511	---
Visc @ 40°C	cSt	ASTM D445	220	141	141	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224936 **Received** : 25 Jun 2024
Lab Number : 06219971 **Tested** : 26 Jun 2024
Unique Number : 11098168 **Diagnosed** : 27 Jun 2024 - Jonathan Hester
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)