



WEAR	<b>SEVERE</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**HAMM H12IP H2350115 - VIBRATORY**  
 Component  
**Front Drum Gearbox**  
 Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

### RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### WEAR

Gear wear is indicated.

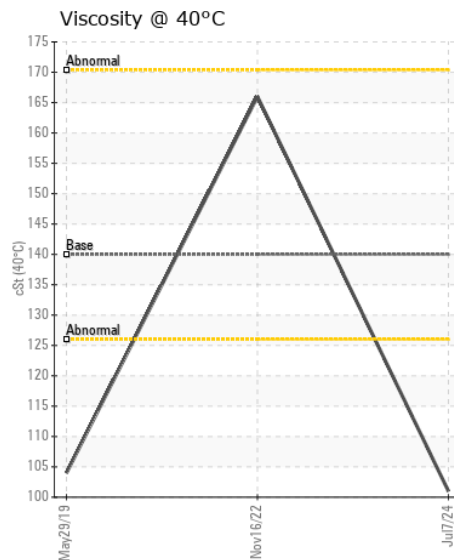
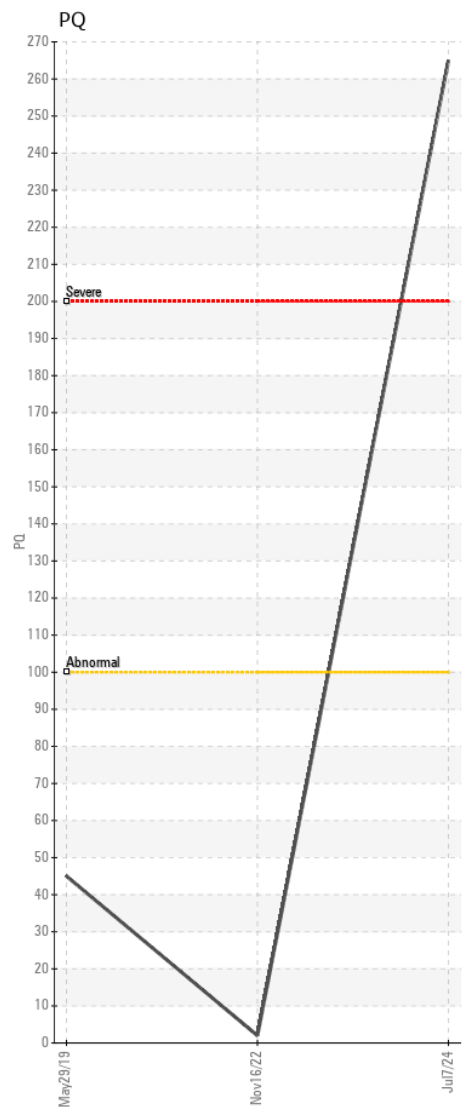
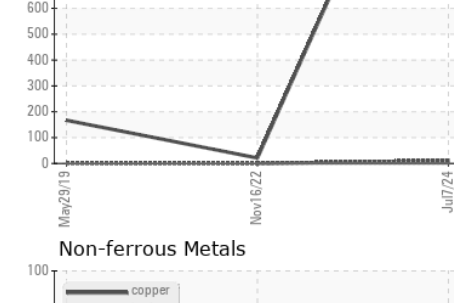
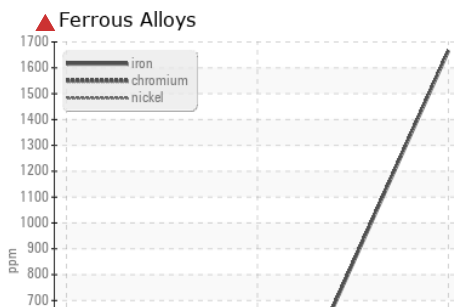
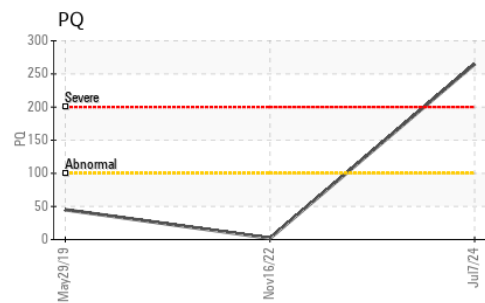
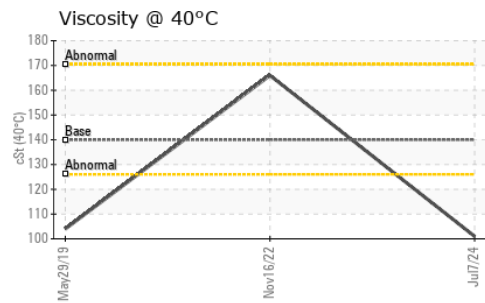
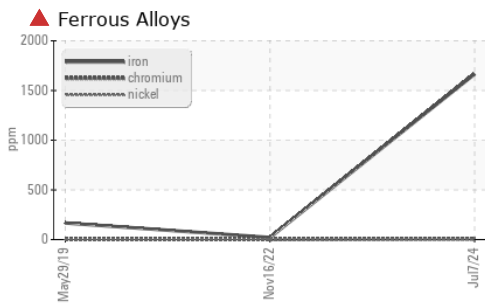
### CONTAMINATION

There is no indication of any contamination in the oil.

### FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0220073</b>	JR0150554	JR0010147
Sample Date		Client Info		<b>07 Jul 2024</b>	16 Nov 2022	29 May 2019
Machine Age	hrs	Client Info		<b>3089</b>	2020	488
Oil Age	hrs	Client Info		<b>3089</b>	0	488
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	NORMAL	NORMAL
PQ		ASTM D8184		<b>265</b>	2	45
Iron	ppm	ASTM D5185m	>200	<b>▲ 1666</b>	21	167
Chromium	ppm	ASTM D5185m	>10	<b>▲ 11</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>3</b>	<1	3
Silver	ppm	ASTM D5185m		<b>0</b>	2	<1
Aluminum	ppm	ASTM D5185m		<b>7</b>	3	8
Lead	ppm	ASTM D5185m		<b>6</b>	0	21
Copper	ppm	ASTM D5185m		<b>92</b>	0	27
Tin	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m		<b>32</b>	7	27
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>6</b>	0	6
Boron	ppm	ASTM D5185m	150	<b>38</b>	184	67
Barium	ppm	ASTM D5185m		<b>5</b>	0	3
Molybdenum	ppm	ASTM D5185m		<b>3</b>	0	2
Manganese	ppm	ASTM D5185m		<b>11</b>	0	<1
Magnesium	ppm	ASTM D5185m	10	<b>4</b>	3	6
Calcium	ppm	ASTM D5185m	70	<b>64</b>	52	57
Phosphorus	ppm	ASTM D5185m	2000	<b>1318</b>	1275	1271
Zinc	ppm	ASTM D5185m	50	<b>291</b>	21	76
Sulfur	ppm	ASTM D5185m	20000	<b>31605</b>	32861	24574
Visc @ 40°C	cSt	ASTM D445	140	<b>101</b>	166	104



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0220073 **Received** : 09 Jul 2024  
**Lab Number** : 06231683 **Tested** : 10 Jul 2024  
**Unique Number** : 11115176 **Diagnosed** : 11 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
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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)