



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL
ATTENTION
NORMAL

Machine Id
24B0704 JR1-400
Component
New (Unused) Oil
Fluid
NOT GIVEN (--- GAL)

RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0000954	---	---
Sample Date		Client Info		08 Feb 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ATTENTION	---	---

WEAR

Iron	ppm	ASTM D5185m		<1	---	---
Chromium	ppm	ASTM D5185m		<1	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		2	---	---
Lead	ppm	ASTM D5185m		0	---	---
Copper	ppm	ASTM D5185m		0	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

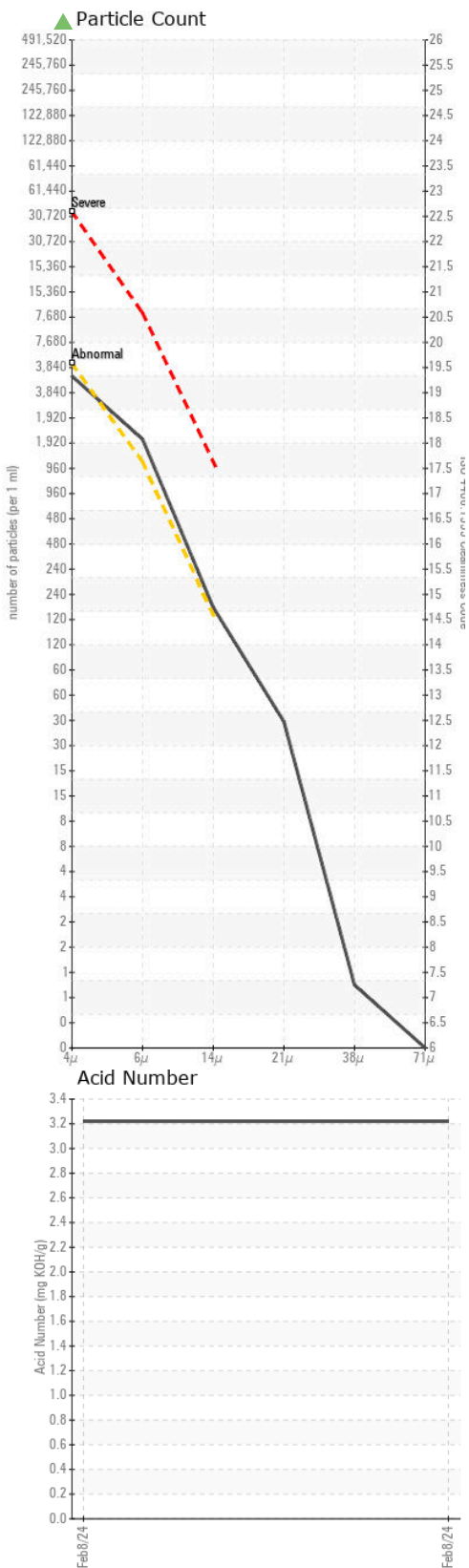
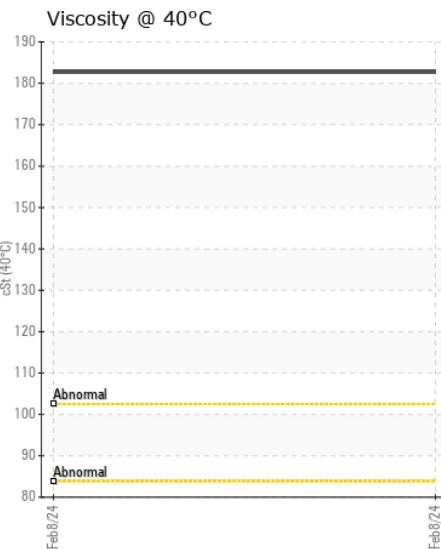
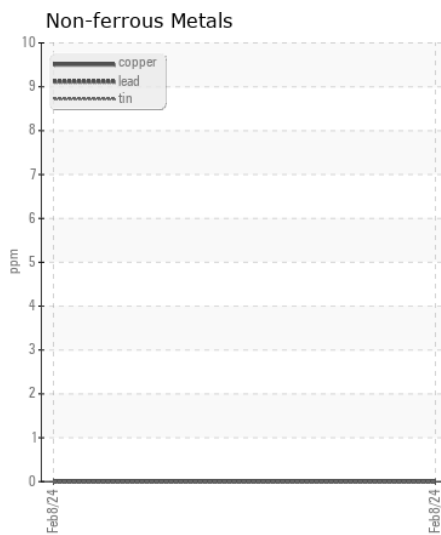
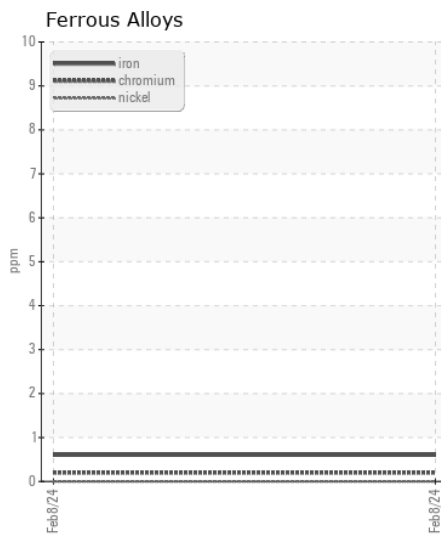
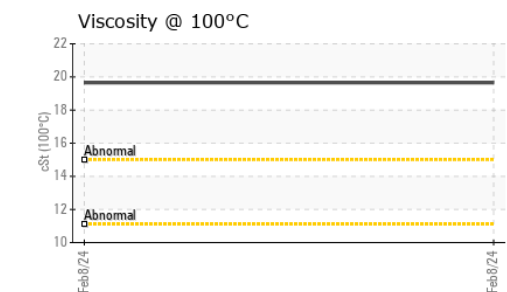
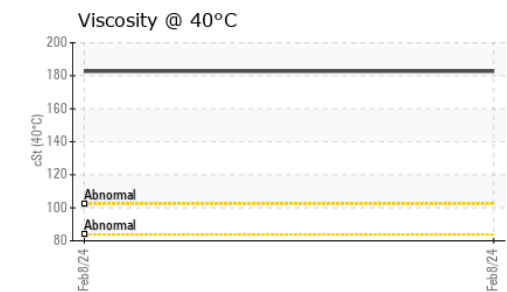
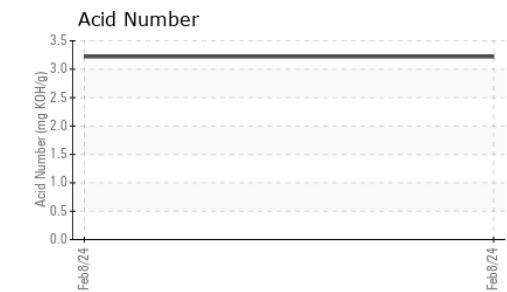
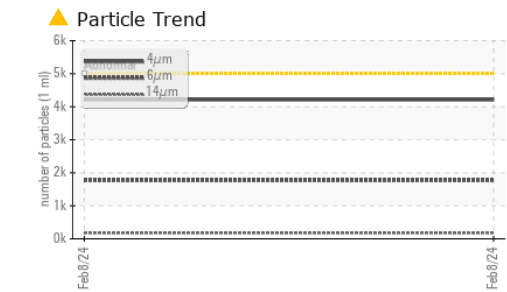
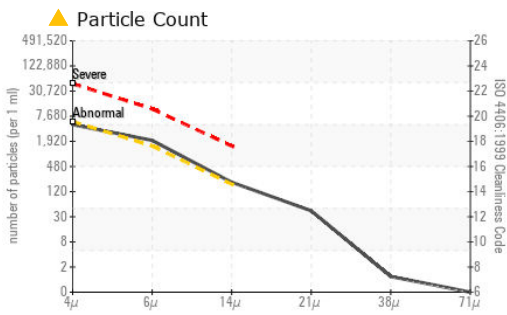
CONTAMINATION

There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m		12	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---
Water		WC Method		NEG	---	---
Particles >4µm		ASTM D7647	>5000	4211	---	---
Particles >6µm		ASTM D7647	>1300	▲ 1772	---	---
Particles >14µm		ASTM D7647	>160	▲ 177	---	---
Particles >21µm		ASTM D7647	>40	37	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 19/18/15	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual		NEG	---	---

FLUID CONDITION

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		9	---	---
Molybdenum	ppm	ASTM D5185m		270	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		9	---	---
Calcium	ppm	ASTM D5185m		1742	---	---
Phosphorus	ppm	ASTM D5185m		1825	---	---
Zinc	ppm	ASTM D5185m		2152	---	---
Sulfur	ppm	ASTM D5185m		15251	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		3.22	---	---
Visc @ 40°C	cSt	ASTM D445		182.7	---	---
Visc @ 100°C	cSt	ASTM D445		19.65	---	---
Viscosity Index (VI)	Scale	ASTM D2270		123	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0000954
Lab Number : 06087857
Unique Number : 10875302
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI)

HIGH PERFORMANCE LUBRICANTS LLC
 500 S SPRUCE ST
 MANTENO, IL
 US 60950
 Contact: DAVID WARD
 sampledata@hplubricants.com
 T: (815)468-3535
 F: x:

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)