



# OIL ANALYSIS REPORT

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

Machine Id  
**24E1701 HDMO-030**  
 Component  
**New (Unused) Oil**  
 Fluid  
**Gasoline Engine Oil (--- GAL)**

## RECOMMENDATION

This is a baseline read-out on the submitted sample. ( Customer Sample Comment: RUN TBN )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0004369	---	---
Sample Date		Client Info		20 May 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				<b>NORMAL</b>	---	---

## WEAR

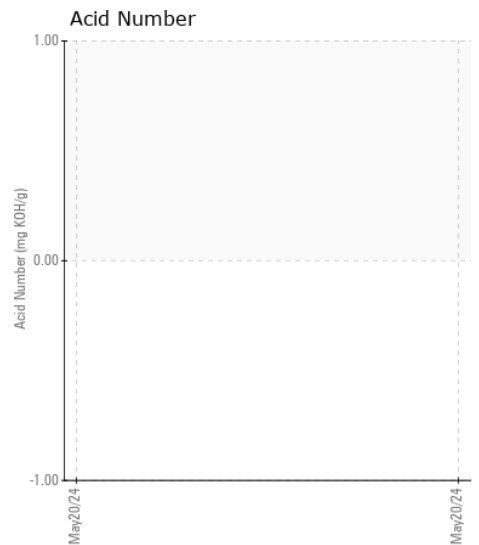
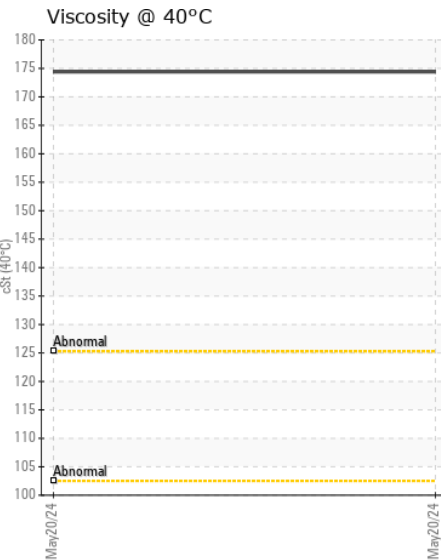
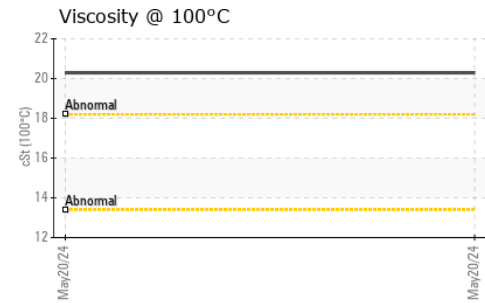
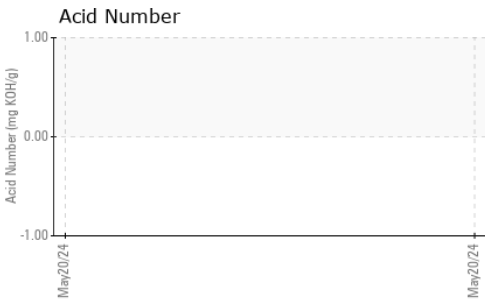
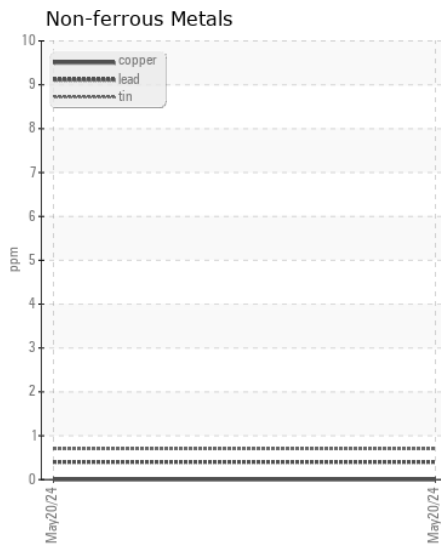
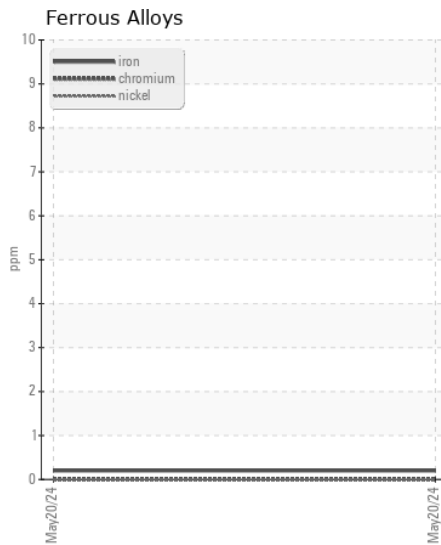
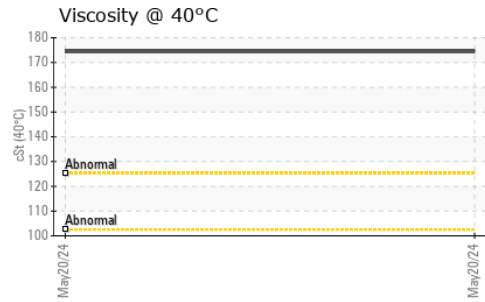
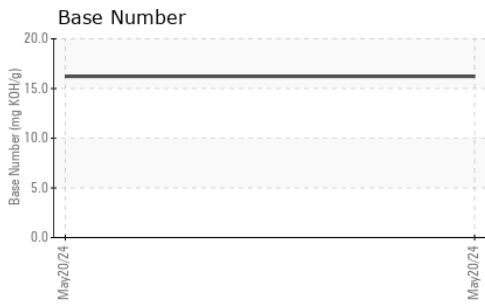
Iron	ppm	ASTM D5185m		<1	---	---
Chromium	ppm	ASTM D5185m		0	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m		10	---	---
Lead	ppm	ASTM D5185m		<1	---	---
Copper	ppm	ASTM D5185m		0	---	---
Tin	ppm	ASTM D5185m		<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

Silicon	ppm	ASTM D5185m		12	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method		<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual		<b>NEG</b>	---	---

## FLUID CONDITION

Sodium	ppm	ASTM D5185m		1	---	---
Boron	ppm	ASTM D5185m		259	---	---
Barium	ppm	ASTM D5185m		1	---	---
Molybdenum	ppm	ASTM D5185m		643	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		478	---	---
Calcium	ppm	ASTM D5185m		3609	---	---
Phosphorus	ppm	ASTM D5185m		881	---	---
Zinc	ppm	ASTM D5185m		986	---	---
Sulfur	ppm	ASTM D5185m		19904	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		16.22	---	---
Visc @ 40°C	cSt	ASTM D445		174.4	---	---
Visc @ 100°C	cSt	ASTM D445		20.29	---	---
Viscosity Index (VI)	Scale	ASTM D2270		135	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HPL0004369  
**Lab Number** : 06192683  
**Unique Number** : 11049435  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI )

**Received** : 28 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Doug Bogart

**HIGH PERFORMANCE LUBRICANTS LLC**  
 500 S SPRUCE ST  
 MANTENO, IL  
 US 60950  
 Contact: DAVID WARD  
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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)

T: (815)468-3535

F: x: