



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
24F2705 PCMO-740
 Component
New (Unused) Oil
 Fluid
Gasoline Engine Oil (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0005283	---	---
Sample Date		Client Info		28 Jun 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				NORMAL	---	---

WEAR

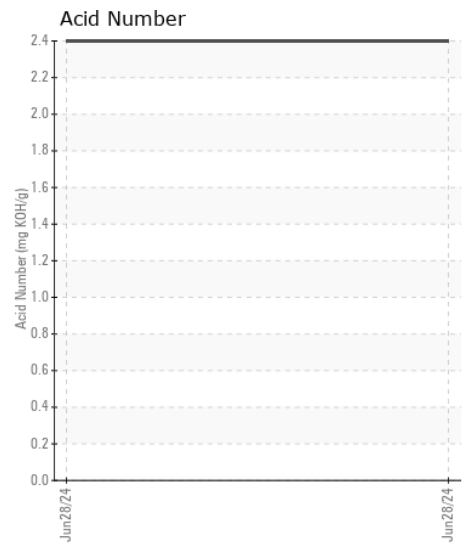
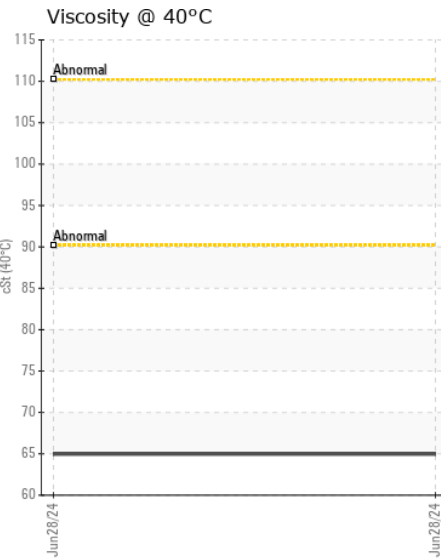
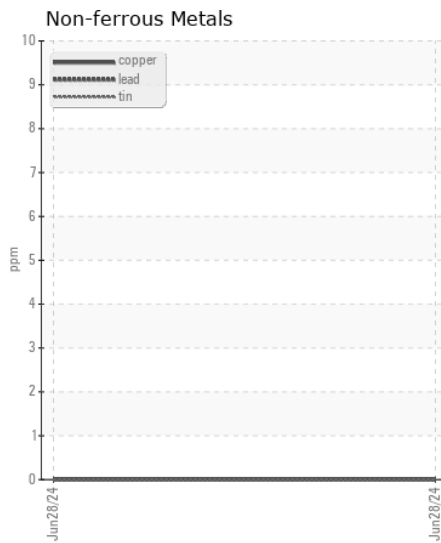
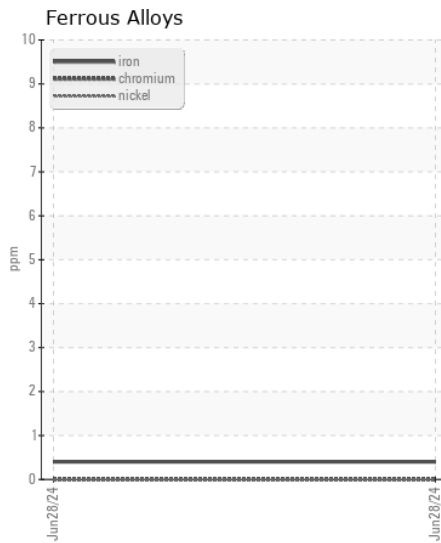
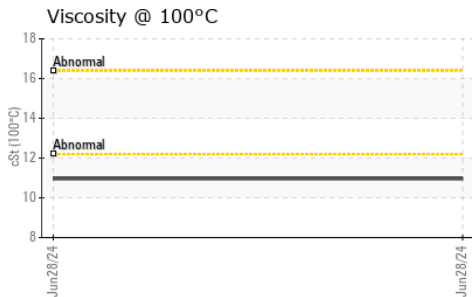
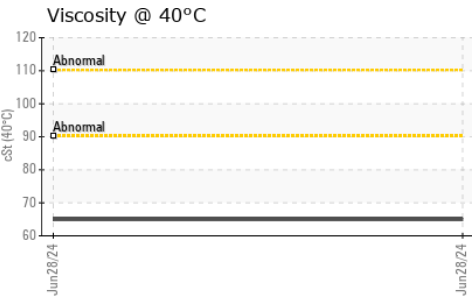
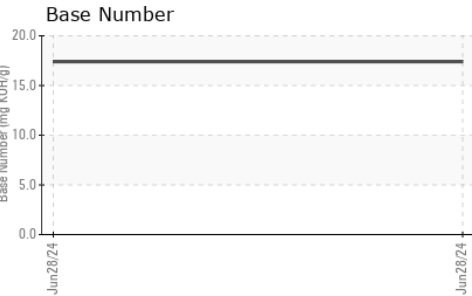
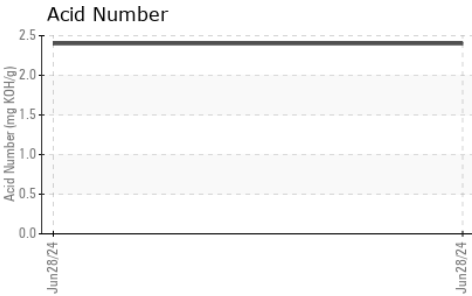
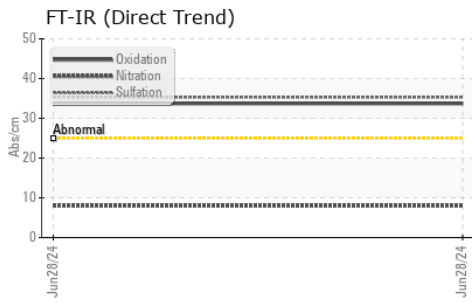
Iron	ppm	ASTM D5185m		<1	---	---
Chromium	ppm	ASTM D5185m		0	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		4	---	---
Lead	ppm	ASTM D5185m		0	---	---
Copper	ppm	ASTM D5185m		0	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

Silicon	ppm	ASTM D5185m		16	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0.1	---	---
Nitration	Abs/cm	*ASTM D7624		8.0	---	---
Sulfation	Abs/.1mm	*ASTM D7415		35.3	---	---
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		<1	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		638	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		2178	---	---
Calcium	ppm	ASTM D5185m		1344	---	---
Phosphorus	ppm	ASTM D5185m		824	---	---
Zinc	ppm	ASTM D5185m		924	---	---
Sulfur	ppm	ASTM D5185m		8920	---	---
Oxidation	Abs/.1mm	*ASTM D7414		33.7	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		2.40	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		17.40	---	---
Visc @ 40°C	cSt	ASTM D445		64.97	---	---
Visc @ 100°C	cSt	ASTM D445		10.96	---	---
Viscosity Index (VI)	Scale	ASTM D2270		161	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0005283
Lab Number : 06225708
Unique Number : 11103905
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI)

Received : 01 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 2024 - Jonathan Hester

HIGH PERFORMANCE LUBRICANTS LLC
 500 S SPRUCE ST
 MANTENO, IL
 US 60950
 Contact: DAVID WARD
 sampledata@hplubricants.com

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: