



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
24G0903 BI-525
 Component
New (Unused) Oil
 Fluid
{not provided} (--- 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		HPL0005609	PTK0005863	---
Sample Date		Client Info		09 Jul 2024	28 Jun 2024	---
Machine Age	hrs	Client Info		0	13494	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

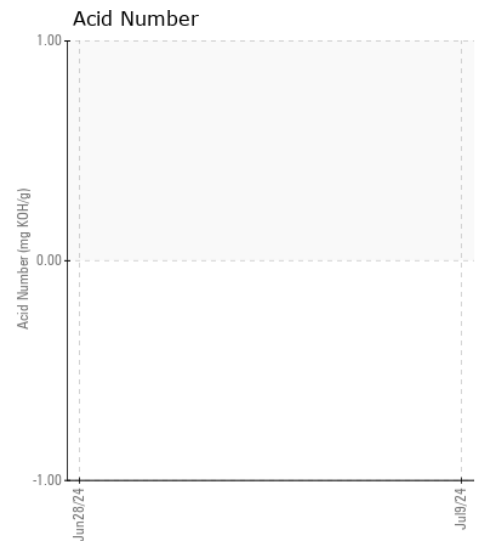
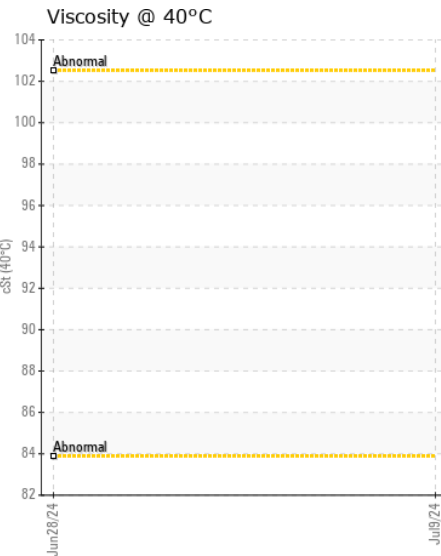
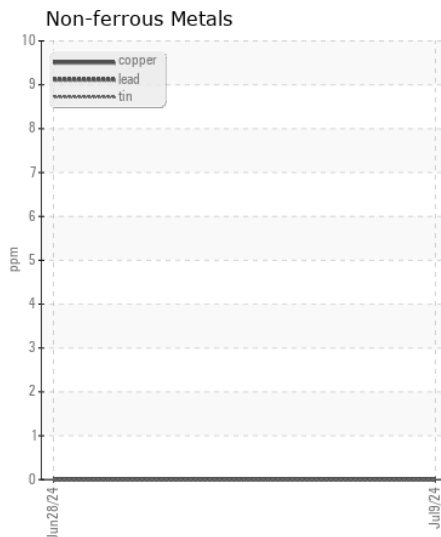
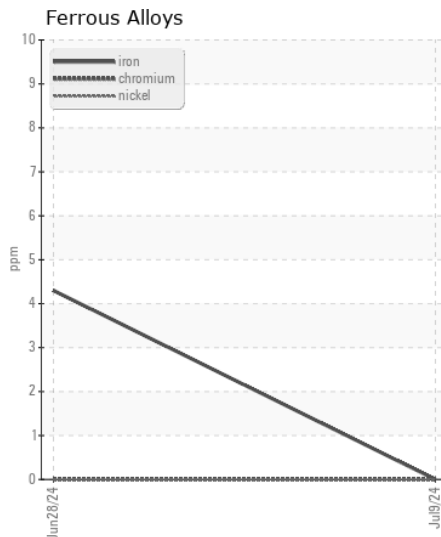
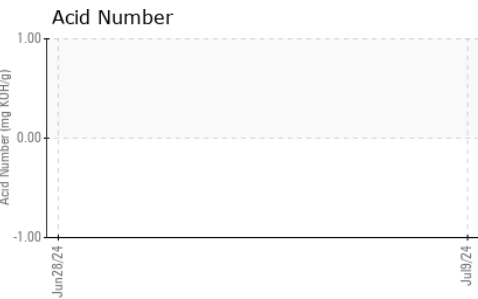
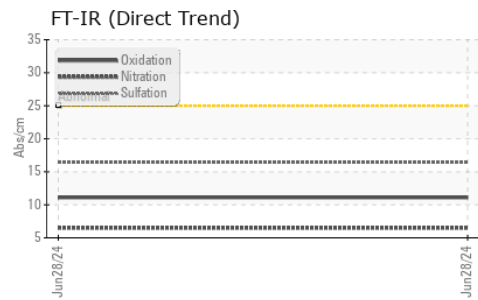
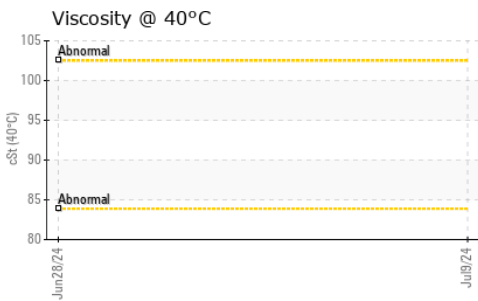
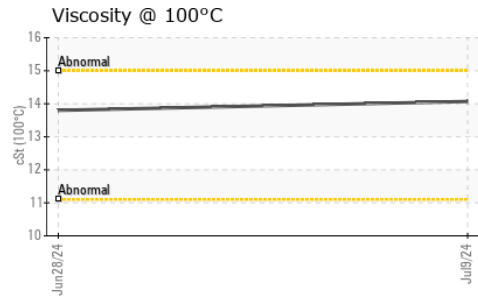
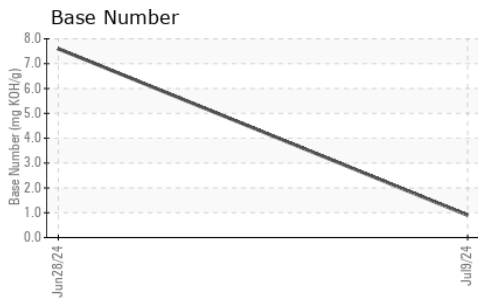
Iron	ppm	ASTM D5185m		0	4	---
Chromium	ppm	ASTM D5185m		0	0	---
Nickel	ppm	ASTM D5185m		0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		0	1	---
Lead	ppm	ASTM D5185m		0	0	---
Copper	ppm	ASTM D5185m		0	0	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM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

CONTAMINATION

Silicon	ppm	ASTM D5185m		6	3	---
Potassium	ppm	ASTM D5185m	>20	2	<1	---
Water		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		---	0.2	---
Nitration	Abs/cm	*ASTM D7624		---	6.5	---
Sulfation	Abs/.1mm	*ASTM D7415		---	16.4	---
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		NEG	NEG	---

FLUID CONDITION

Sodium	ppm	ASTM D5185m		<1	1	---
Boron	ppm	ASTM D5185m		0	4	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		12	7	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m		27	117	---
Calcium	ppm	ASTM D5185m		523	2472	---
Phosphorus	ppm	ASTM D5185m		1381	966	---
Zinc	ppm	ASTM D5185m		1564	1138	---
Sulfur	ppm	ASTM D5185m		10173	4385	---
Oxidation	Abs/.1mm	*ASTM D7414		---	11.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		0.90	7.6	---
Visc @ 40°C	cSt	ASTM D445		95.91	---	---
Visc @ 100°C	cSt	ASTM D445		14.07	13.8	---
Viscosity Index (VI)	Scale	ASTM D2270		150	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : HPL0005609

Lab Number : 06237461

Unique Number : 11126295

Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI)

Received : 15 Jul 2024

Tested : 18 Jul 2024

Diagnosed : 18 Jul 2024 - Jonathan Hester

HIGH PERFORMANCE LUBRICANTS LLC

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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)