



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
24D0803 BL-335
 Component
New (Unused) Oil
 Fluid
Hydraulic System Oil (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL006547	HPL006545	---
Sample Date		Client Info		09 Apr 2024	09 Apr 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

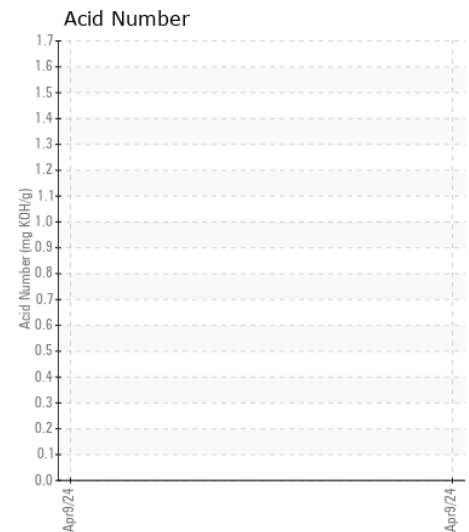
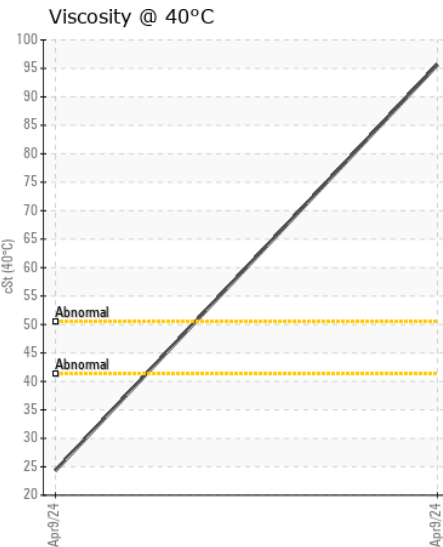
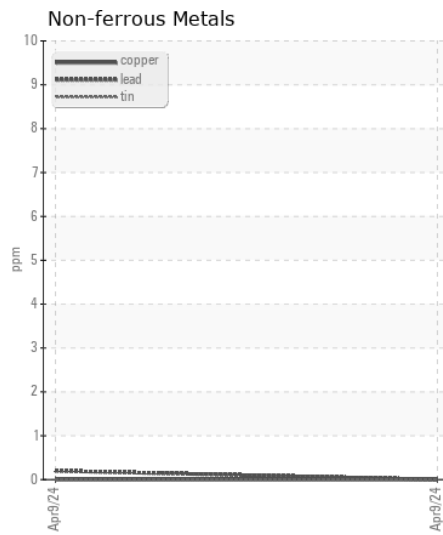
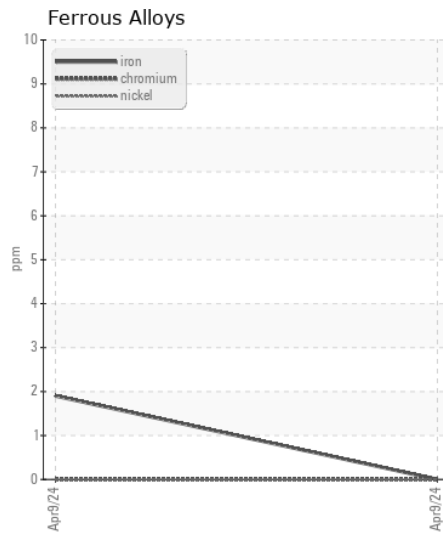
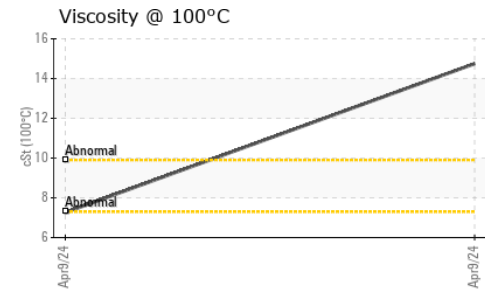
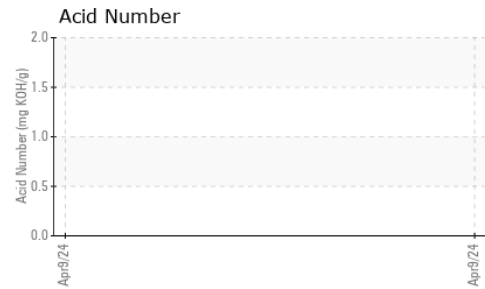
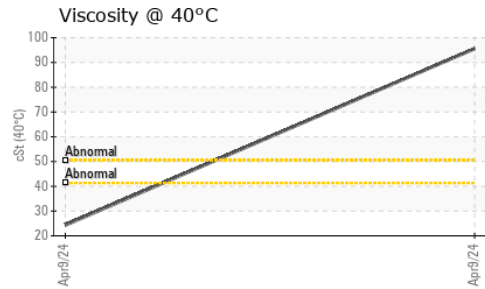
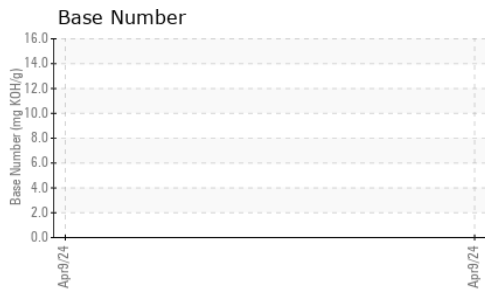
Iron	ppm	ASTM D5185m		2	0	---
Chromium	ppm	ASTM D5185m		0	0	---
Nickel	ppm	ASTM D5185m		0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		6	<1	---
Lead	ppm	ASTM D5185m		<1	0	---
Copper	ppm	ASTM D5185m		0	0	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

Silicon	ppm	ASTM D5185m		11	3	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Water		WC Method		NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	---	2106	---
Particles >6µm		ASTM D7647	>1300	---	340	---
Particles >14µm		ASTM D7647	>160	---	15	---
Particles >21µm		ASTM D7647	>40	---	3	---
Particles >38µm		ASTM D7647	>10	---	0	---
Particles >71µm		ASTM D7647	>3	---	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	18/16/11	---
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		0	0	---
Boron	ppm	ASTM D5185m		62	0	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		638	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		832	<1	---
Calcium	ppm	ASTM D5185m		2312	2	---
Phosphorus	ppm	ASTM D5185m		809	483	---
Zinc	ppm	ASTM D5185m		919	0	---
Sulfur	ppm	ASTM D5185m		8762	3821	---
Acid Number (AN)	mg KOH/g	ASTM D8045		---	1.69	---
Base Number (BN)	mg KOH/g	ASTM D2896		15.43	---	---
Visc @ 40°C	cSt	ASTM D445		95.6	24.31	---
Visc @ 100°C	cSt	ASTM D445		14.75	7.26	---
Viscosity Index (VI)	Scale	ASTM D2270		161	293	---



Certificate L2367

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

Sample No. : HPL006547

Lab Number : 06150846

Unique Number : 10980924

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

Received : 16 Apr 2024

Tested : 19 Apr 2024

Diagnosed : 19 Apr 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)