



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HYSTER 7230 (S/N 561K)
Component
Transmission (Auto)
Fluid
ATF (--- QTS)

RECOMMENDATION

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0021574	DC0021631	---
Sample Date		Client Info		28 Feb 2024	18 Apr 2023	---
Machine Age	hrs	Client Info		3704	3650	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level is abnormal. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>160	▲ 269	▲ 262	---
Chromium	ppm	ASTM D5185m	>5	0	1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>5	0	0	---
Aluminum	ppm	ASTM D5185m	>50	4	6	---
Lead	ppm	ASTM D5185m	>50	5	0	---
Copper	ppm	ASTM D5185m	>225	▲ 394	▲ 344	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

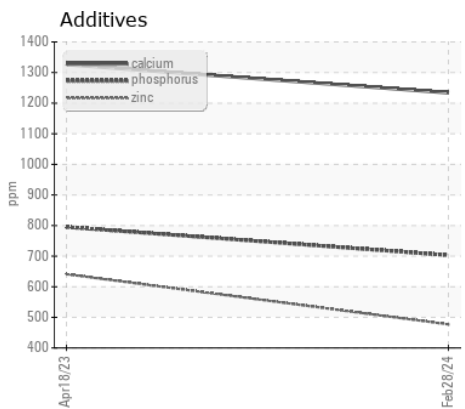
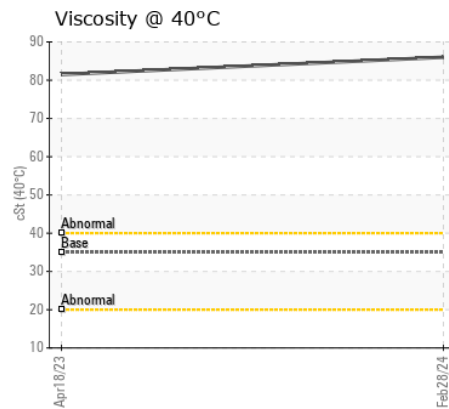
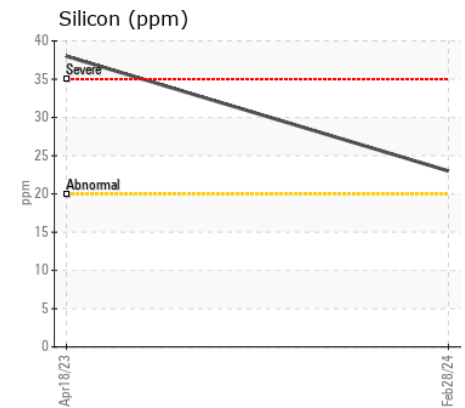
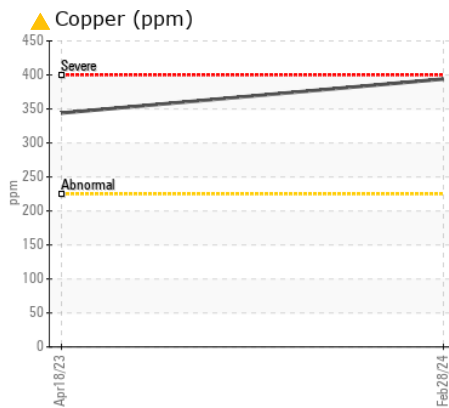
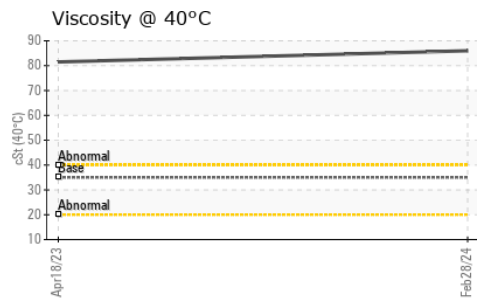
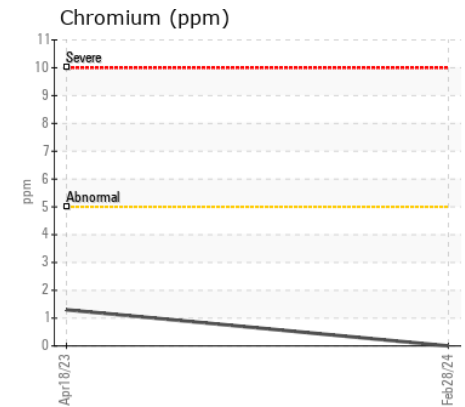
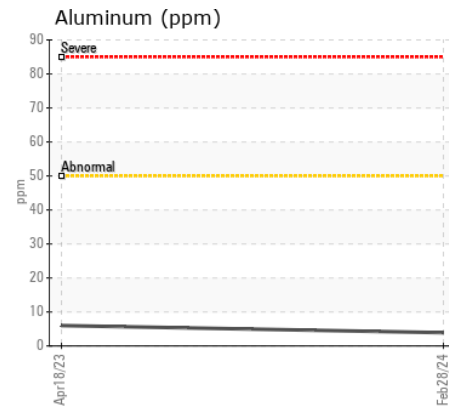
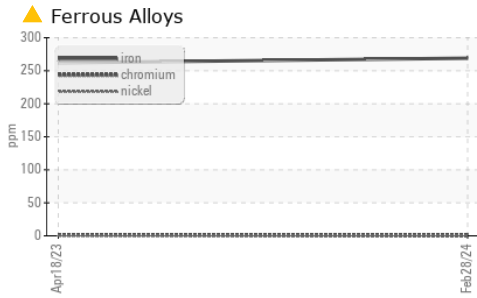
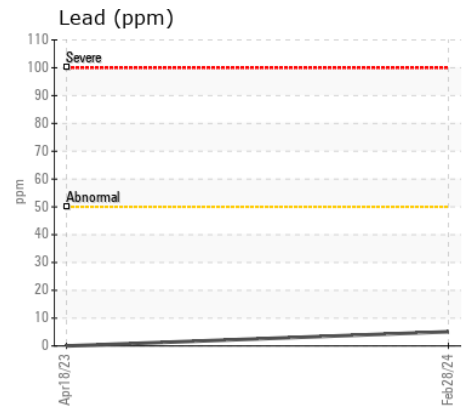
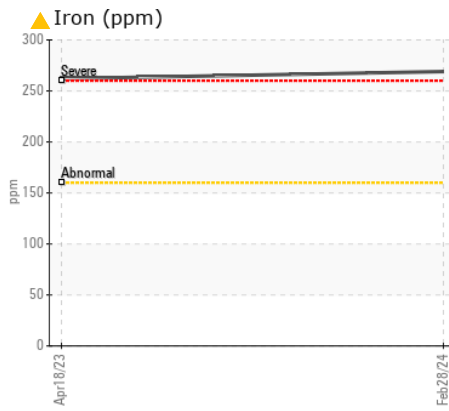
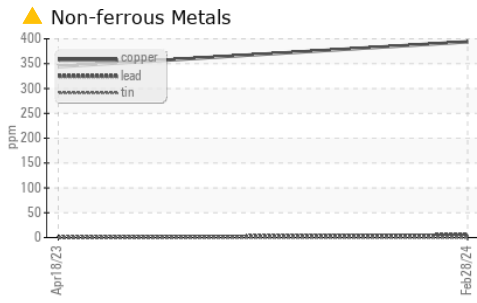
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	23	38	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Water		WC Method	>0.1	NEG	NEG	---
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	>0.1	NEG	NEG	---

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		7	5	---
Boron	ppm	ASTM D5185m		57	61	---
Barium	ppm	ASTM D5185m		2	1	---
Molybdenum	ppm	ASTM D5185m		28	29	---
Manganese	ppm	ASTM D5185m		6	7	---
Magnesium	ppm	ASTM D5185m		100	134	---
Calcium	ppm	ASTM D5185m		1234	1326	---
Phosphorus	ppm	ASTM D5185m		703	795	---
Zinc	ppm	ASTM D5185m		477	641	---
Sulfur	ppm	ASTM D5185m		13950	16783	---
Visc @ 40°C	cSt	ASTM D445	35.0	86.0	81.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0021574
Lab Number : 06158609
Unique Number : 10994032
Test Package : MOB 1

Received : 23 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 25 Apr 2024 - Jonathan Hester

ABERDEEN PROVING GROUND
 6721 RARITON AVENUE
 ABERDEEN, MD
 US 21005

Contact: TONY DAVIS
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F:

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)