



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
Store 2 - Beaver [152477]
Machine Id
PRINOTH T12 935300215
Component
Right Propel Gearbox
Fluid
GEAR OIL (PAO) ISO 220 (17 Oz)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049864	LEC0033367	---
Sample Date		Client Info		12 Jul 2024	15 Jul 2022	---
Machine Age	hrs	Client Info		799	330	---
Oil Age	hrs	Client Info		469	330	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	MARGINAL	---

WEAR

Gear wear is indicated. Bearing and/or bushing wear is indicated.

PQ		ASTM D8184		195	147	---
Iron	ppm	ASTM D5185m	>200	▲ 722	▲ 248	---
Chromium	ppm	ASTM D5185m	>10	8	4	---
Nickel	ppm	ASTM D5185m	>10	1	<1	---
Titanium	ppm	ASTM D5185m		8	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		● 131	2	---
Lead	ppm	ASTM D5185m		▲ 87	▲ 183	---
Copper	ppm	ASTM D5185m		▲ 63	31	---
Tin	ppm	ASTM D5185m		2	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

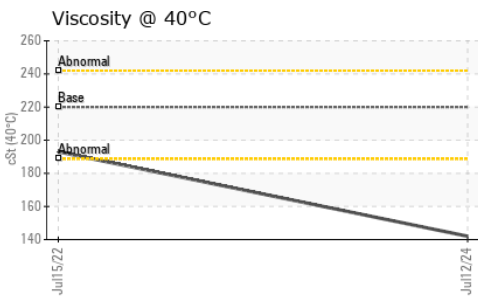
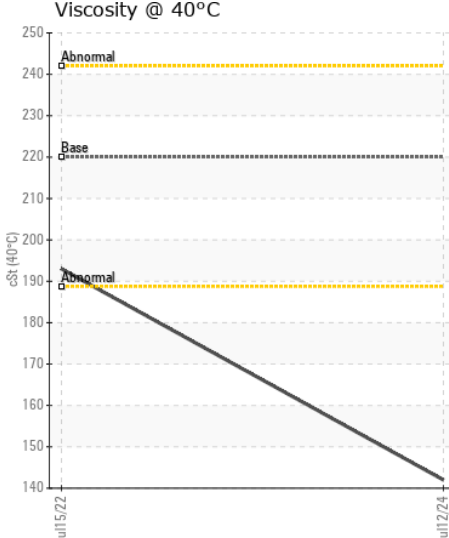
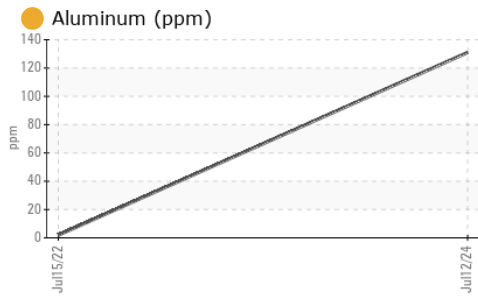
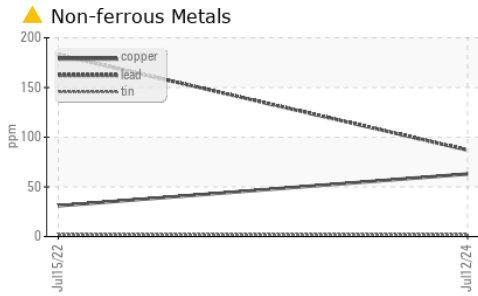
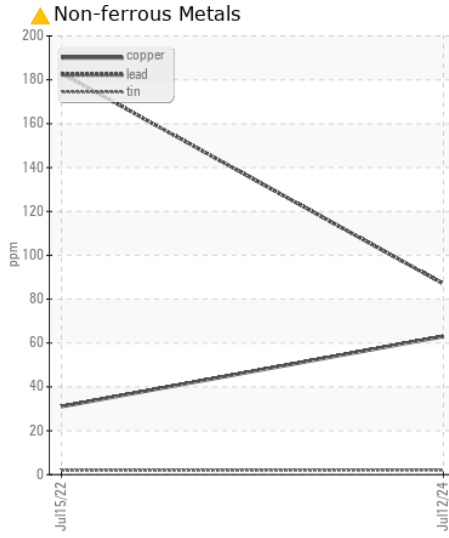
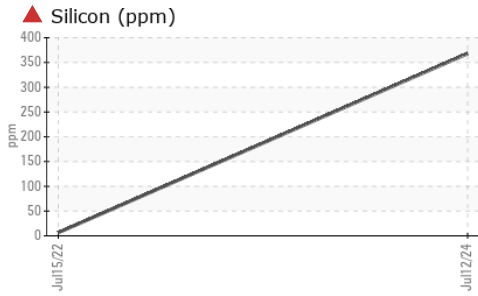
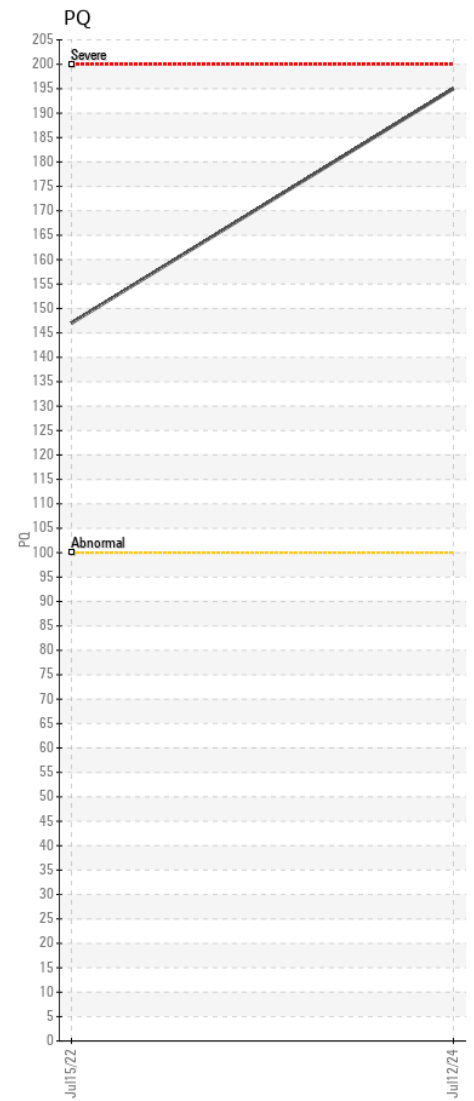
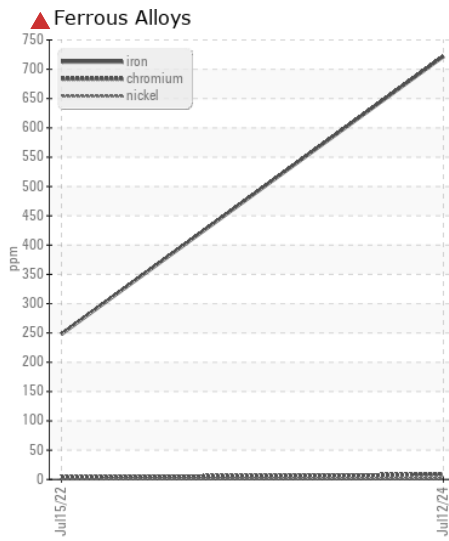
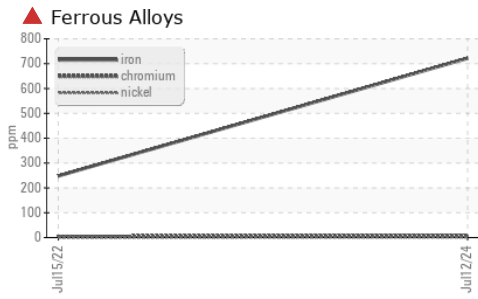
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 368	6	---
Potassium	ppm	ASTM D5185m	>20	33	<1	---
Water		WC Method	>0.2	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	>0.2	NEG	NEG	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		8	8	---
Boron	ppm	ASTM D5185m	25	12	12	---
Barium	ppm	ASTM D5185m	12	20	27	---
Molybdenum	ppm	ASTM D5185m	5	<1	<1	---
Manganese	ppm	ASTM D5185m		8	3	---
Magnesium	ppm	ASTM D5185m	25	19	6	---
Calcium	ppm	ASTM D5185m	25	76	11	---
Phosphorus	ppm	ASTM D5185m	375	355	365	---
Zinc	ppm	ASTM D5185m	25	29	24	---
Sulfur	ppm	ASTM D5185m	4900	14930	7469	---
Visc @ 40°C	cSt	ASTM D445	220	142	193	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049864 **Received** : 15 Jul 2024
Lab Number : 06236458 **Tested** : 16 Jul 2024
Unique Number : 11125292 **Diagnosed** : 17 Jul 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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 105 TENNIS CENTER DR.
 MARIETTA, OH
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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)