



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

MARGINAL
NORMAL
NORMAL

Area
Store 8 - Pikeville [133225]

Machine Id
PRINOTH T12 935300138

Component
Left Propel Gearbox

Fluid
GEAR OIL (PAO) ISO 220 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0035913	LEC0032565	LECP193777
Sample Date		Client Info		03 Nov 2022	22 Jul 2022	29 Jan 2019
Machine Age	hrs	Client Info		1294	1181	536
Oil Age	hrs	Client Info		1294	1181	536
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	NORMAL

WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		48	65	111
Iron	ppm	ASTM D5185m	>200	1841	1419	162
Chromium	ppm	ASTM D5185m	>10	23	18	2
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		6	5	2
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m		10	11	4
Lead	ppm	ASTM D5185m		62	60	211
Copper	ppm	ASTM D5185m		▲ 1540	▲ 1217	7
Tin	ppm	ASTM D5185m		11	9	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

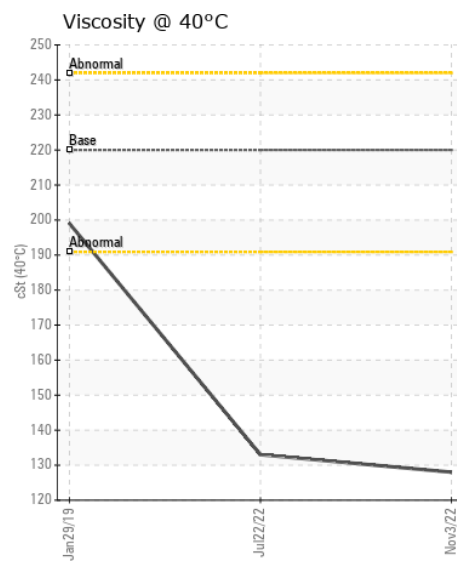
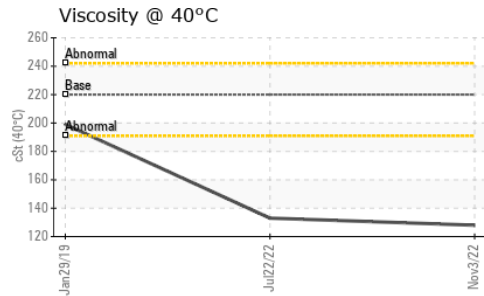
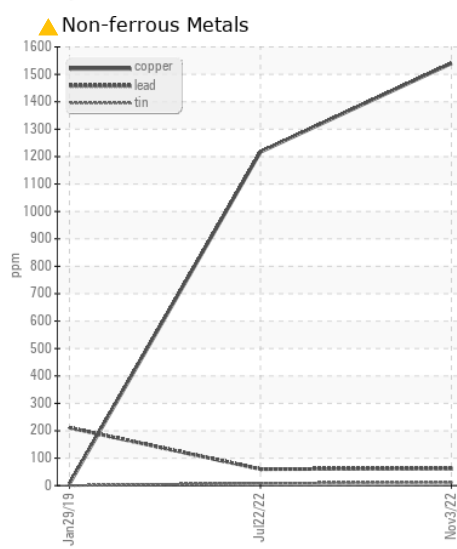
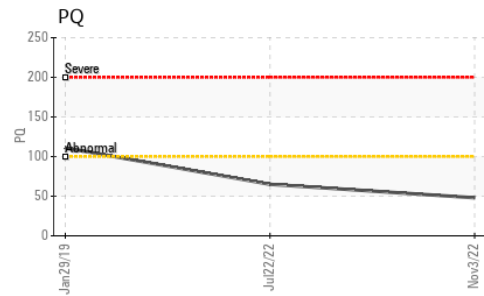
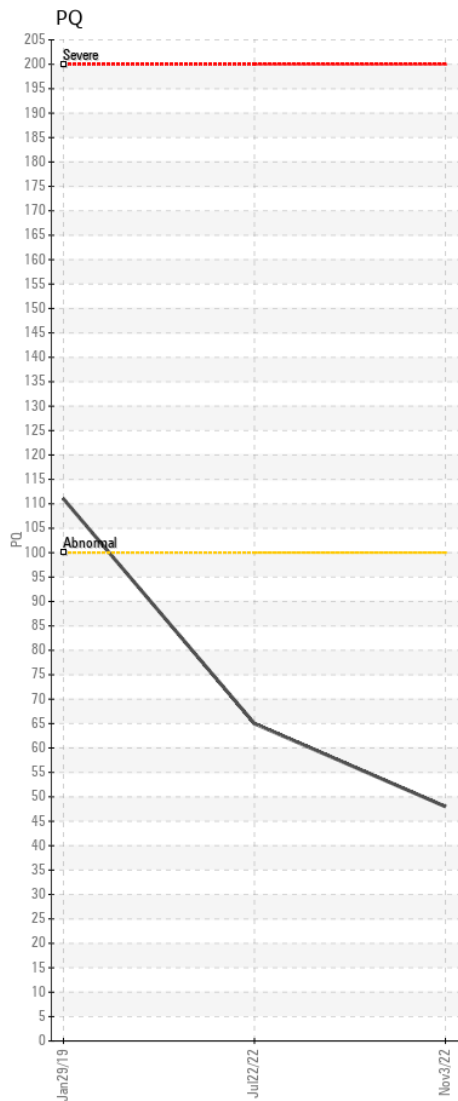
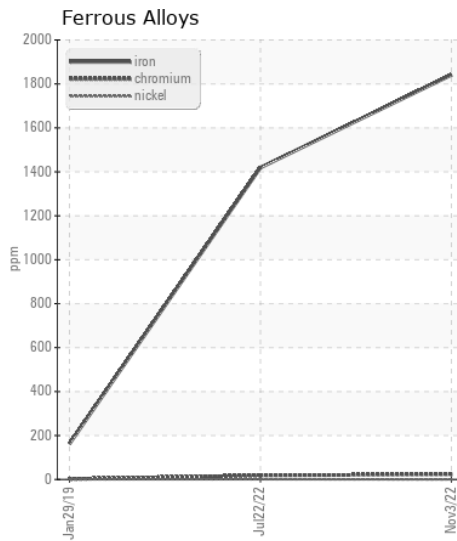
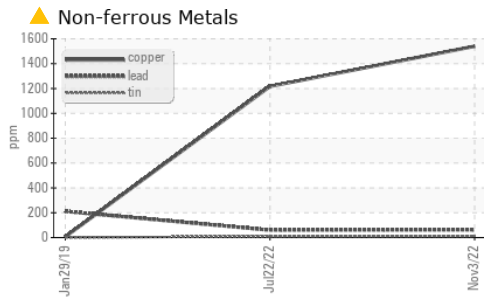
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		37	31	14
Potassium	ppm	ASTM D5185m	>20	3	0	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		5	6	10
Boron	ppm	ASTM D5185m	25	8	9	4
Barium	ppm	ASTM D5185m	12	21	16	34
Molybdenum	ppm	ASTM D5185m	5	3	3	0
Manganese	ppm	ASTM D5185m		12	9	2
Magnesium	ppm	ASTM D5185m	25	7	6	2
Calcium	ppm	ASTM D5185m	25	50	51	15
Phosphorus	ppm	ASTM D5185m	375	322	287	302
Zinc	ppm	ASTM D5185m	25	43	30	14
Sulfur	ppm	ASTM D5185m	4900	16244	14387	4505
Visc @ 40°C	cSt	ASTM D445	220	128	133	199.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0035913 **Received** : 07 Nov 2022
Lab Number : 05686630 **Diagnosed** : 08 Nov 2022
Unique Number : 10206202 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: PQ)

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 MARIETTA, OH
 US 45750-9765
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Certificate L2367
 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)