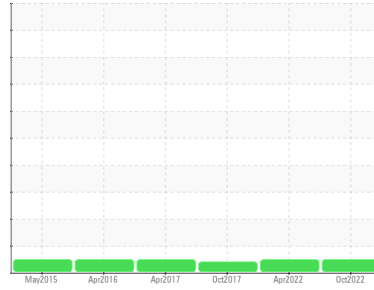




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[6030583]
 Machine Id
5001-PR32-GRAN20 FIXED OIL
 Component
Gearbox
 Fluid
GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		CB	CB0030679	CB0027083
Sample Date	Client Info		24 Oct 2022	08 Apr 2022	23 Oct 2017
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		6	23	26
Iron	ppm	ASTM D5185(m) >200	8	14	88
Chromium	ppm	ASTM D5185(m) >15	0	<1	<1
Nickel	ppm	ASTM D5185(m) >15	<1	<1	0
Titanium	ppm	ASTM D5185(m)	<1	0	0
Silver	ppm	ASTM D5185(m)	0	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<1	<1	<1
Lead	ppm	ASTM D5185(m) >100	0	0	0
Copper	ppm	ASTM D5185(m) >200	0	<1	<1
Tin	ppm	ASTM D5185(m) >25	<1	<1	0
Antimony	ppm	ASTM D5185(m)	<1	0	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	54	59	9
Barium	ppm	ASTM D5185(m) 15	47	47	17
Molybdenum	ppm	ASTM D5185(m) 15	0	0	0
Manganese	ppm	ASTM D5185(m)	<1	<1	<1
Magnesium	ppm	ASTM D5185(m) 50	<1	0	<1
Calcium	ppm	ASTM D5185(m) 50	29	27	5
Phosphorus	ppm	ASTM D5185(m) 350	257	251	121
Zinc	ppm	ASTM D5185(m) 100	10	9	7
Sulfur	ppm	ASTM D5185(m) 12500	9274	9349	7057
Lithium	ppm	ASTM D5185(m)	<1	<1	2

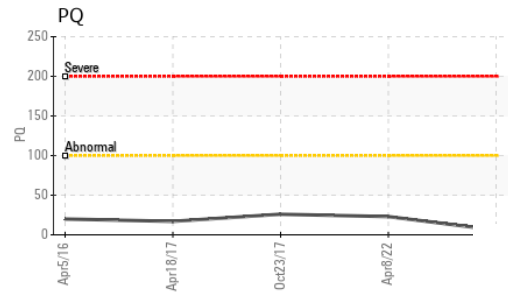
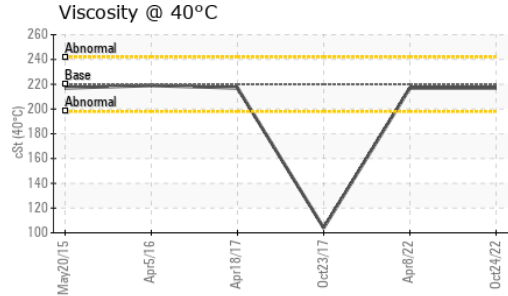
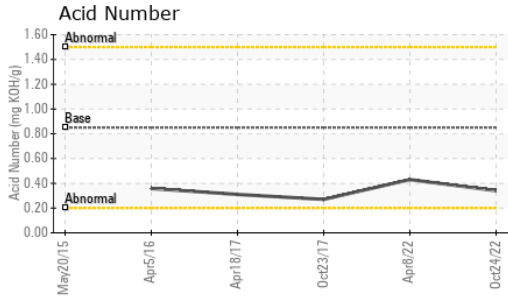
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	2	2	4
Sodium	ppm	ASTM D5185(m)	2	2	<1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	3

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.85	0.34	0.43	0.27

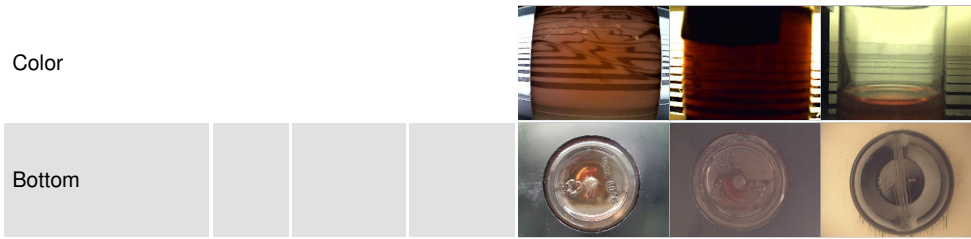
OIL ANALYSIS REPORT



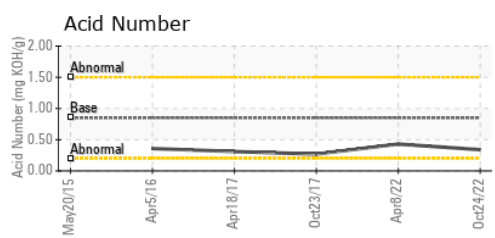
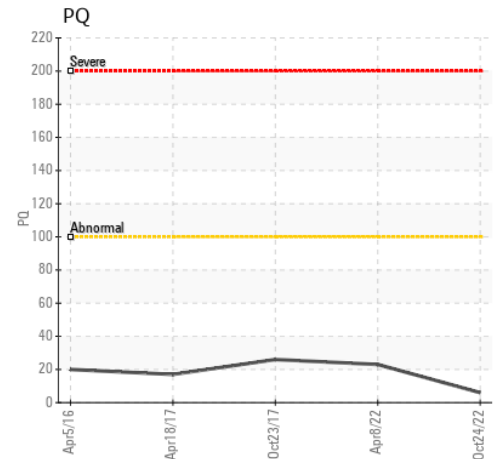
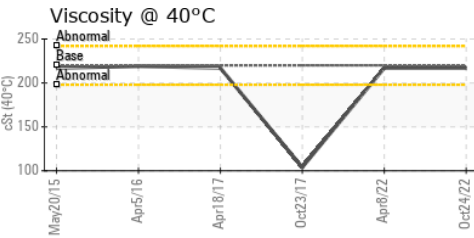
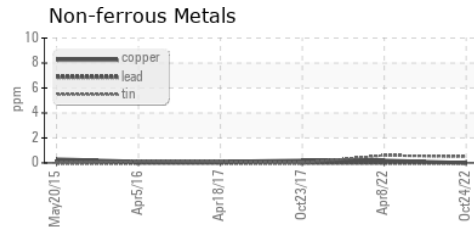
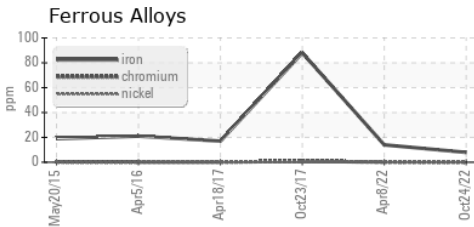
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	217	▲ 104

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CB
Lab Number : 02518525
Unique Number : 5475505
Test Package : IND 2
Received : 25 Oct 2022
Diagnosed : 26 Oct 2022
Diagnostician : Kevin Marson

Synovos/Apotex
 50 Steinway Blvd.
 Etobicoke, ON
 CA M9W 6Y3
 Contact: Calvin Shum
 cshum@apotex.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.