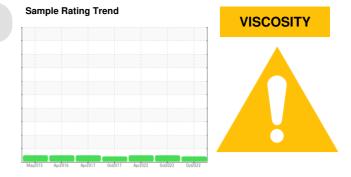


^{Area} [6030585]

PROBLEM SUMMARY

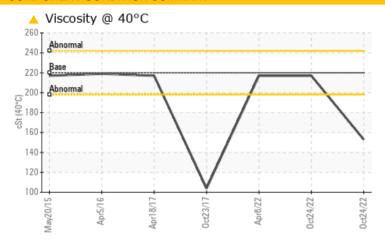
Component **Gearbox**

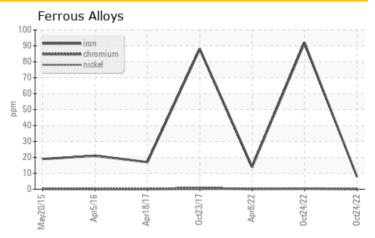
GEAR OIL ISO 220 (--- GAL)



COMPONENT CONDITION SUMMARY

5001-PR32-GRAN20 FIXED OIL





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.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	NORMAL	
Visc @ 40°C	cSt	ASTM D7279(m)	220	153	217	217	

Customer Id: APOETO Sample No.: CB Lab Number: 02518527 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

HISTORICAL DIAGNOSIS

24 Oct 2022 Diag: Kevin Marson

NORMAL



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. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



08 Apr 2022 Diag: Kevin Marson

NORMAL



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. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

23 Oct 2017 Diag: Kevin Marson

VISCOSITY



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. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

SAMPLE INFORMATION

Sample Number

Sample Rating Trend

method

Client Info

VISCOSITY



history2

CB0030679

history1

СВ

[6030585] 5001-PR32-GRAN20 FIXED OIL

Component

Gearbox

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

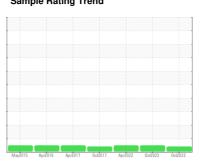
An increase in the iron level is noted.

Contamination

There is no indication of any contamination in the

▲ Fluid Condition

Viscosity of sample indicates oil is within ISO 150 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



СВ

Sample Date		Client Info		24 Oct 2022	24 Oct 2022	08 Apr 2022
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				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		197	6	23
Iron	ppm	ASTM D5185(m)	>200	92	8	14
Chromium	ppm	ASTM D5185(m)	>15	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>100	0	0	0
Copper	ppm	ASTM D5185(m)	>200	<1	0	<1
Tin	ppm	ASTM D5185(m)	>25	0	<1	<1
Antimony	ppm	ASTM D5185(m)		<1	<1	0
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
ADDITIVES Boron	ppm		limit/base	current 21	history1	history2 59
	ppm	method				
Boron		method ASTM D5185(m)	50	21	54	59
Boron Barium	ppm	method ASTM D5185(m) ASTM D5185(m)	50 15	21 11	54 47	59 47
Boron Barium Molybdenum	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	50 15	21 11 0	54 47 0	59 47 0
Boron Barium Molybdenum Manganese	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	50 15 15	21 11 0 <1	54 47 0 <1	59 47 0 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	50 15 15 50	21 11 0 <1 <1	54 47 0 <1 <1	59 47 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	50 15 15 50	21 11 0 <1 <1 11	54 47 0 <1 <1 29	59 47 0 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	50 15 15 50 50 350	21 11 0 <1 <1 11 220	54 47 0 <1 <1 29 257	59 47 0 <1 0 27 251
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	50 15 15 50 50 350 100	21 11 0 <1 <1 11 220	54 47 0 <1 <1 29 257	59 47 0 <1 0 27 251
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	50 15 15 50 50 350 100	21 11 0 <1 <1 11 220 14 5825	54 47 0 <1 <1 29 257 10 9274	59 47 0 <1 0 27 251 9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	50 15 15 50 50 350 100 12500	21 11 0 <1 <1 11 220 14 5825	54 47 0 <1 <1 29 257 10 9274 <1	59 47 0 <1 0 27 251 9 9349 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	50 15 15 50 50 350 100 12500	21 11 0 <1 <1 11 220 14 5825 13	54 47 0 <1 <1 29 257 10 9274 <1 history1	59 47 0 <1 0 27 251 9 9349 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	50 15 15 50 50 350 100 12500	21 11 0 <1 <1 11 220 14 5825 13 current	54 47 0 <1 <1 29 257 10 9274 <1 history1	59 47 0 <1 0 27 251 9 9349 <1 history2 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m)	50 15 15 50 50 350 100 12500 limit/base >50	21 11 0 <1 <1 11 220 14 5825 13 current 4	54 47 0 <1 <1 29 257 10 9274 <1 history1 2	59 47 0 <1 0 27 251 9 9349 <1 history2 2 2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : CB : 02518527

: 5475507 Test Package : IND 2

Received Diagnosed Diagnostician

: 25 Oct 2022 : 26 Oct 2022 : Kevin Marson

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.

Synovos/Apotex 50 Steinway Blvd.

Etobicoke, ON **CA M9W 6Y3** Contact: Calvin Shum

cshum@apotex.com T:

F: