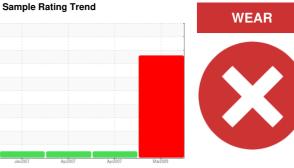


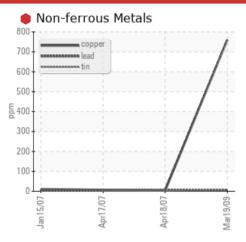
PROBLEM SUMMARY

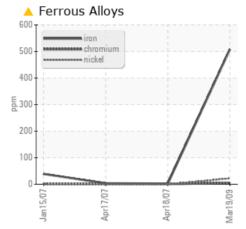


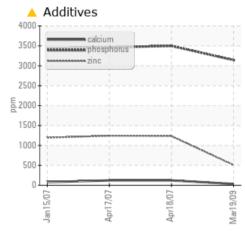


TRIBOL GEAROIL 1100/320 (--- LTR)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We recommend either performing an oil change or oil filtration. We cannot recommend specific action as we have limited information with regards to reservoir capacity and/or lubricant type.

PROBLEMATIC TEST RESULTS									
Sample Status			SEVERE	NORMAL	NORMAL				
Iron	ppm	ASTM D5185(m)	△ 508	3	4				
Chromium	ppm	ASTM D5185(m)	<u>^</u> 5	<1	1				
Nickel	ppm	ASTM D5185(m)	<u>^</u> 22	<1	<1				
Copper	ppm	ASTM D5185(m)	760	4	7				
Calcium	ppm	ASTM D5185(m)	△ 33	122	123				
Zinc	ppm	ASTM D5185(m)	509	1235	1242				

Customer Id: GOONAP Sample No.: PP Lab Number: 01527181

Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data: +1

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
				We recommend either performing an oil change or oil filtration. We cannot recommend

Jul 12 2023

HISTORICAL DIAGNOSIS

18 Apr 2007 Diag:

MISSED

NORMAL

Filter Fluid



Resample at the next service interval to monitor. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system. All component wear rates are normal. There is no indication of any contamination in the component. The condition of oil is suitable for further service.

lubricant type.

view report

specific action as we have limited information with regards to reservoir capacity and/or

17 Apr 2007 Diag:

WEAR PARTICLES



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Trace amount of abnormal low alloy steel is observed in this sample Consider efforts to improve fluid cleanliness. There is no indication of any contamination in the component. The condition of oil is suitable for further service.



15 Jan 2007 Diag:

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the component. The condition of oil is suitable for further service.





OIL ANALYSIS REPORT

Machine Id TC01 Component

Gearbox

TRIBOL GEAROIL 1100/320 (--- LTR)

Sample Rating Trend



DIAGNOSIS

Recommendation

We recommend either performing an oil change or oil filtration. We cannot recommend specific action as we have limited information with regards to reservoir capacity and/or lubricant type.

Wear

The copper level is severe. Bearing and/or bushing wear is indicated. The iron level is abnormal. The chromium level is abnormal. Gear wear is indicated.

Contamination

There is no indication of any contamination in the component.

▲ Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil.

		Jan 200	7 Apr2007	Apr2007 N	Mar2009	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP	PP	PP
Sample Date		Client Info		19 Mar 2009	18 Apr 2007	17 Apr 2007
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				SEVERE	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		16		
Iron	ppm	ASTM D5185(m)		△ 508	3	4
Chromium	ppm	ASTM D5185(m)		<u>^</u> 5	<1	1
Nickel	ppm	ASTM D5185(m)		<u>^</u> 22	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		<1	<1	<1
Aluminum	ppm	ASTM D5185(m)		34	35	35
Lead	ppm	ASTM D5185(m)		5	4	4
Copper	ppm	ASTM D5185(m)		760	4	7
Tin	ppm	ASTM D5185(m)		9	4	4
Vanadium	ppm	ASTM D5185(m)		1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		3	<1	<1
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		1649	2194	2197
Manganese	ppm	ASTM D5185(m)		5	0	0
Magnesium	ppm	ASTM D5185(m)		3	4	4
Calcium	ppm	ASTM D5185(m)		△ 33	122	123
Phosphorus	ppm	ASTM D5185(m)		3143	3498	3463
Zinc	ppm	ASTM D5185(m)		509	1235	1242
Sulfur	ppm	ASTM D5185(m)		11084	9650	9570
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		22	33	34
Sodium	ppm	ASTM D5185(m)		4	8	8
Potassium	ppm	ASTM D5185(m)		0	<1	<1
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		2.77	3.71	3.70
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	VLITE	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*		NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
1:05:11\ Dov: 1			0-		Mahammad Ma	Land COONIAD



OIL ANALYSIS REPORT

