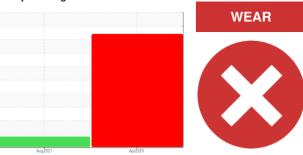


PROBLEM SUMMARY

Sample Rating Trend



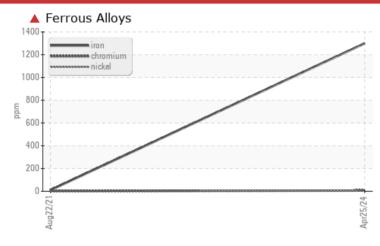
Machine Id CMMS 00313-A

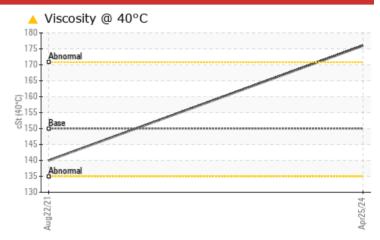
Gearbox

Fluid

GEAR OIL ISO 150 (40 QTS)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL				
Iron	ppm	ASTM D5185m	>200	1300	10				
White Metal	scalar	*Visual	NONE	MODER	NONE				
Silt	scalar	*Visual	NONE	▲ MODER	NONE				
Visc @ 40°C	cSt	ASTM D445	150	176	140				

Customer Id: CARMTJ Sample No.: USPM24621 Lab Number: 06161460 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Inspect Wear Source	,		?	We advise that you inspect for the source(s) of wear.		
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.		
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.		
Resample			?	We recommend an early resample to monitor this condition.		
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.		

HISTORICAL DIAGNOSIS





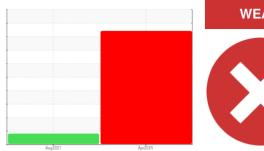
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

CMMS 00313-A

Gearbox

GEAR OIL ISO 150 (40 QTS)

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

The iron level is severe. Moderate concentration of visible metal present.

Contamination

There is a moderate amount of visible silt present in the sample.

Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

			Aug2021	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM24621	USP05332285	
Sample Date		Client Info		25 Apr 2024	22 Aug 2021	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	1300	10	
Chromium	ppm	ASTM D5185m	>15	7	0	
Nickel	ppm	ASTM D5185m	>15	7	<1	
Titanium	ppm	ASTM D5185m		1	0	
Silver	ppm	ASTM D5185m		0	1	
Aluminum	ppm	ASTM D5185m	>25	2	0	
Lead	ppm	ASTM D5185m	>100		<1	
Copper	ppm	ASTM D5185m	>200	2	<1	
Tin	ppm	ASTM D5185m	>25	0	<1	
Antimony	ppm	ASTM D5185m	>5		0	
Vanadium	ppm	ASTM D5185m	70	<1	0	
Cadmium		ASTM D5185m		<1	<1	
	ppm	AO IIVI DO TOOIII		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	10	
Barium	ppm	ASTM D5185m	15	0	0	
Molybdenum	ppm	ASTM D5185m	15	3	0	
Manganese	ppm	ASTM D5185m		14	1	
Magnesium	ppm	ASTM D5185m	50	<1	0	
Calcium	ppm	ASTM D5185m	50	7	16	
Phosphorus	ppm	ASTM D5185m	350	531	463	
Zinc	ppm	ASTM D5185m	100	10	8	
Sulfur	ppm	ASTM D5185m	12500	9586	9118	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	25	11	
Sodium	ppm	ASTM D5185m		2	0	
Potassium	ppm	ASTM D5185m	>20	2	0	
Water	%	ASTM D6304	>0.2	0.000	0.006	
ppm Water	ppm	ASTM D6304	>2000	0	67.9	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000		△ 91131	
Particles >6µm		ASTM D7647	>5000		<u>▲</u> 10884	
Particles >14µm		ASTM D7647	>640		200	
Particles >21µm		ASTM D7647	>160		30	
Particles >38µm		ASTM D7647	>40		0	
Particles >71µm		ASTM D7647	>10		0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16		<u>4</u> 24/21/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No. Lab Number : 06161460

: USPM24621 Unique Number : 10996883 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Apr 2024 **Tested**

: 02 May 2024 Diagnosed : 02 May 2024 - Jonathan Hester

CARGILL ANIMAL NUTRITION - MOUNT JOY

1088 E MAIN ST MT JOY, PA US 17552

Contact: SEAN BERTRAND Sean_Bertrand@cargill.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

T:

F: