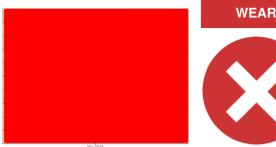


PROBLEM SUMMARY

Sample Rating Trend



TULSA [22921]

80-257

Rear Left Final Drive

CONOCO PHILLIPS 80W90 MP (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: ConocoPhillips 80w/90 mp gear oil)

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE				
Copper	ppm	ASTM D5185m	>50	443				
Tin	mag	ASTM D5185m	>10	▲ 31				

Customer Id: MANTUL Sample No.: WC0923314 Lab Number: 06220083 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@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.		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend





TULSA [22921]

80-257

Rear Left Final Drive

CONOCO PHILLIPS 80W90 MP (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: ConocoPhillips 80w/90 mp gear oil)

Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the

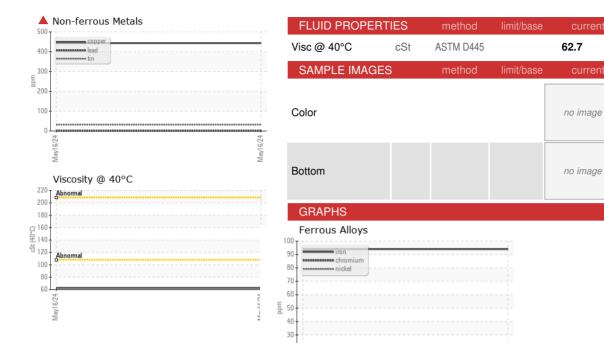
Fluid Condition

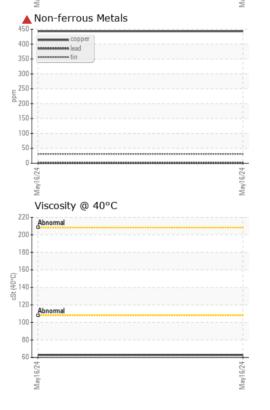
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

				May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923314		
Sample Date		Client Info		16 May 2024		
Machine Age	hrs	Client Info		5478		
Oil Age	hrs	Client Info		1478		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	94		
Chromium	ppm	ASTM D5185m	>10	1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	4		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>50	443		
Tin	ppm	ASTM D5185m	>10	▲ 31		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
			IIIIII/Dase		History	HISTOTYZ
Boron	ppm	ASTM D5185m		122		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		2		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		15		
Calcium	ppm	ASTM D5185m		3524		
Phosphorus	ppm	ASTM D5185m		1414		
Zinc	ppm	ASTM D5185m		1542		
Sulfur	ppm	ASTM D5185m		9405		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	25		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	3		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	LIGHT		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
0·45·21) Rev: 1					mitted Rv: IAM	



OIL ANALYSIS REPORT









Certificate 12367

Laboratory Sample No.

: WC0923314 Lab Number : 06220083 Unique Number : 11098280

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jun 2024 Tested : 26 Jun 2024

Diagnosed : 27 Jun 2024 - Sean Felton

5601 S 122ND E AVE TULSA, OK US 74146

Contact: JAMES STEELMON james.steelmon@manhattanrb.com

MANHATTAN ROAD AND BRIDGE

no image

no image

no image

no image

Test Package : CONST 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)

T:

F: