

PROBLEM SUMMARY

Sample Rating Trend

WEAR

Machino Id

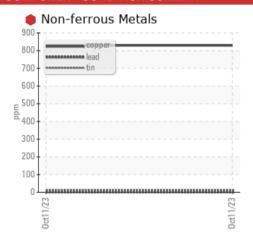
UNKNOWN WESTERN STAR 02-5070 - Western star tractor (S/N 5KJNABFG7NPNL8134)

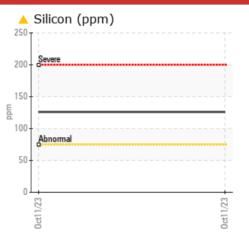
Componen

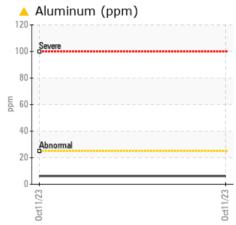
Front Differential

PETRO CANADA TRAXON SYNTHETIC 75W90 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE				
Aluminum	ppm	ASTM D5185m	>25	<u>^</u> 6				
Copper	ppm	ASTM D5185m	>100	829				
Tin	ppm	ASTM D5185m	>10	<u> 11</u>				
Silicon	ppm	ASTM D5185m	>75	126				

Customer Id: CONLINNE Sample No.: SBP0004854 Lab Number: 05980767 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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 from the component if this has not already been done.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend





UNKNOWN WESTERN STAR 02-5070 - Western star tractor (S/N 5KJNABFG7NPNL8134)

Front Differential

PETRO CANADA TRAXON SYNTHETIC 75

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Bearing and/or bushing wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

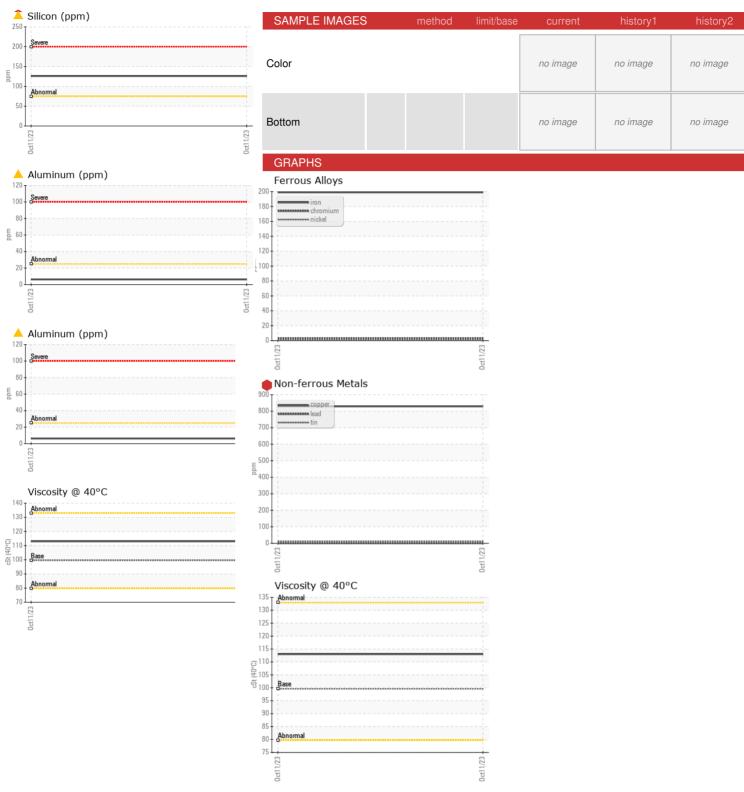
Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

W90 (GAL)				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info	mmobacco	SBP0004854		
Sample Namber		Client Info		11 Oct 2023		
•	hro	Client Info		4289		
Machine Age Dil Age	hrs	Client Info		2242		
-	hrs	Client Info		N/A		
Oil Changed Sample Status		Client into		N/A SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
ron	nnm	ASTM D5185m	>500	199		
Chromium	ppm	ASTM D5185m	>10	3		
Nickel		ASTM D5185m	>10	1		
	ppm		>10	-		
Fitanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<u>^</u> 6		
_ead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	829		
Γin	ppm	ASTM D5185m	>10	<u> 11</u>		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	328	256		
Barium	ppm	ASTM D5185m	1	0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		7		
Magnesium	ppm	ASTM D5185m	1	1		
Calcium	ppm	ASTM D5185m	7	8		
Phosphorus	ppm	ASTM D5185m	1145	1334		
Zinc	ppm	ASTM D5185m	3	10		
Sulfur		ASTM D5185m	17909	25609		
	ppm					111
CONTAMINANTS	j	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<u> </u>		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	2		
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	NONE		
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	>.2	NEG		
Free Water	scalar	*Visual	<i>>.∟</i>	NEG		
FLUID PROPERT			limit/base			
		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	99.6	113		



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10698062

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0004854 : 05980767

Test Package : FLEET

Received : 16 Oct 2023 Diagnosed Diagnostician : Don Baldridge

: 18 Oct 2023

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)

Constructors Inc. - 603659

1815 Y Street Lincoln, NE US 68508

Contact: Jack Linhart

jackl@constructorslincoln.com

T: (402)434-2157