

## **PROBLEM SUMMARY**

#### Area CAMPBELLFORD PLANT 2 Machine Id G2 LUBE Component

Hydraulic System

### PETRO CANADA HARMONY AW 46 (--- GAL)

#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA HARMONY AW 46, however, a fluid match indicates that this fluid is ISO 46 R&O Hydraulic Oil. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS							
Sample Status				ATTENTION			
Phosphorus	ppm	ASTM D5185(m)	330	<u> </u>			
Zinc	ppm	ASTM D5185(m)	390	<u> </u>			
Sulfur	ppm	ASTM D5185(m)	660	<u> </u>			

Customer Id: PET412PET Sample No.: WC0736385 Lab Number: 02560202 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 <u>gloria.gonzalez@wearcheck.com</u>

RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Alert			?	The fluid was specified as PETRO CANADA HARMONY AW 46, however, a fluid match indicates that this fluid is ISO 46 R&O Hydraulic Oil. Please confirm the oil type and grade on your next sample.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

**Oil Cleanliness** 

### CAMPBELLFORD PLANT 2 **G2 LUBE** Component

**Hydraulic System** PETRO CANADA HARMONY AW 46 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA HARMONY AW 46, however, a fluid match indicates that this fluid is ISO 46 R&O Hydraulic Oil. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

	וחי					
2						
L)						
		method	limit/base	current	history1	history2
Sample Number		Client Info	IIIIII/Dase	WC0736385		
Sample Date		Client Info		17 May 2023		
Machine Age	yrs	Client Info		25		
Oil Age	yrs	Client Info		2		
Oil Changed	910	Client Info		- Not Changd		
Sample Status				ATTENTION		
-	_		11 11 11			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		<1		
Lead	ppm	ASTM D5185(m)	>20	2		
Copper	ppm	ASTM D5185(m)		<1		
Tin	ppm	ASTM D5185(m)	>20	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	110	0		
Calcium	ppm	ASTM D5185(m)	60	0		
Phosphorus	ppm	ASTM D5185(m)	330	<b>A</b> 3		
Zinc	ppm	ASTM D5185(m)	390	<u> </u>		
Sulfur	ppm	ASTM D5185(m)	660	<b>A</b> 33		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	752		
Particles >6µm		ASTM D7647 ASTM D7647		129		
Particles >14µm		ASTM D7647 ASTM D7647	>160	129		
Particles >21µm		ASTM D7647 ASTM D7647		3		
Particles >38µm		ASTM D7647 ASTM D7647	>10	0		
Particles >71µm		ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)		17/14/11		

FLUID DEGRADATION Acid Number (AN)

method mg KOH/g ASTM D974\* 0.28

ISO 4406 (c) >19/17/14

limit/base

0.11 Contact/Location: Nelson Ross - PET412PET

history1

17/14/11

current

history2

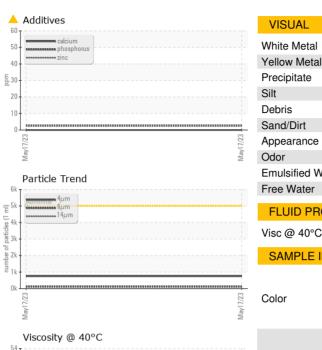
Report Id: PET412PET [WCAMIS] 02560202 (Generated: 08/15/2023 15:58:58) Rev: 1

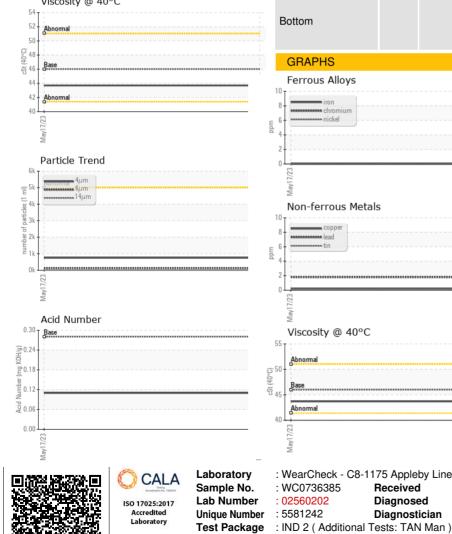
Sample Rating Trend

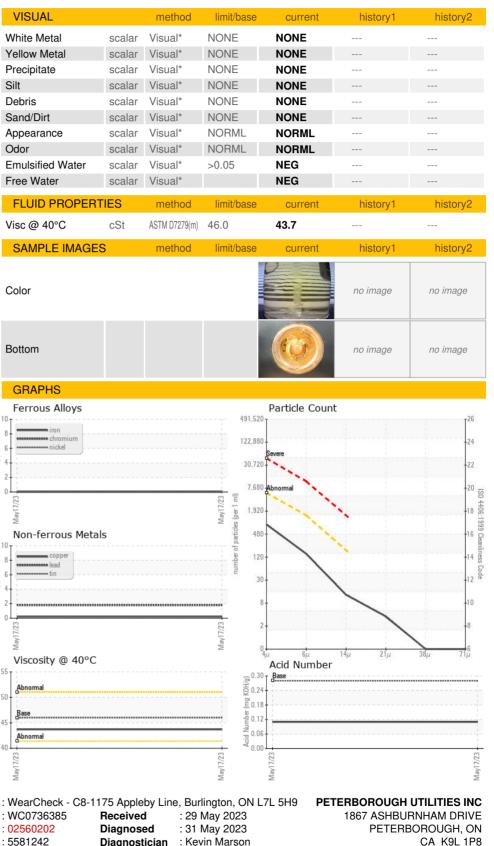




# **OIL ANALYSIS REPORT**







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.

Report Id: PET412PET [WCAMIS] 02560202 (Generated: 08/15/2023 15:58:58) Rev: 1

Contact/Location: Nelson Ross - PET412PET

Contact: Nelson Ross

nross@pui.ca

T: (705)760-6119

F: (705)748-3138