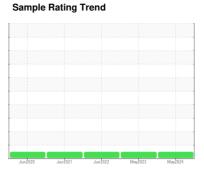


# **OIL ANALYSIS REPORT**

# Area **ELGIN NISSEI PRESS 13 H**

Hydraulic System

PETRO CANADA ENVIRON AW 46 (--- GAL)





## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0125332	PCA0097201	PCA0077114
Sample Date		Client Info		13 May 2024	13 May 2023	28 Jun 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	4000	4000
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	7	10	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m	>20	0	<1	0
	ppm	ASTM D5185m	>20	0	<1	<1
	ppm	ASTM D5185m	>20	29	27	26
	ppm	ASTM D5185m	>20	1	<1	1
	ppm	ASTM D5185m				
,	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	0	0
	PPIII		limit/bass			
ADDITIVES		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	0	0	0	1
Barium	ppm	ASTM D5185m	0	8	5	14
		40TH DE (05	•	_		
	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	0	<1 0	<1 2	<1 0
Manganese     Magnesium     Calcium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0	<1 0 44	<1 2 36	<1 0 36
Manganese     Magnesium     Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 650	<1 0	<1 2	<1
Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0	<1 0 44	<1 2 36	<1 0 36
Manganese	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 650	<1 0 44 607	<1 2 36 617	<1 0 36 510
Manganese	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 650	<1 0 44 607 71	<1 2 36 617 75	<1 0 36 510 73
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 650 0 1280	<1 0 44 607 71 4243	<1 2 36 617 75 4816	<1 0 36 510 73 4155
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 650 0 1280	<1 0 44 607 71 4243 current	<1 2 36 617 75 4816	<1 0 36 510 73 4155
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 650 0 1280 limit/base	<1 0 44 607 71 4243 current	<1 2 36 617 75 4816	<1 0 36 510 73 4155 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 650 0 1280 limit/base	<1 0 44 607 71 4243 current <1	<1 2 36 617 75 4816 history1	<1 0 36 510 73 4155 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m ASTM D5185m	0 0 0 650 0 1280 limit/base >15	<1 0 44 607 71 4243 current <1 <1	<1 2 36 617 75 4816 history1 1 1	<1 0 36 510 73 4155 history2 1 <1 0
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m	0 0 0 650 0 1280 limit/base >15 >20	<1 0 44 607 71 4243 current <1 <1 0	<1 2 36 617 75 4816 history1 1 1 2	<1 0 36 510 73 4155 history2 1 <1 0
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m  Method ASTM D5185m	0 0 0 650 0 1280 limit/base >15 >20 limit/base	<1 0 44 607 71 4243 current <1 <1 0 current	<1 2 36 617 75 4816 history1 1 1 2 history1 NONE	<pre> &lt;1   0   36   510   73   4155   history2   1   &lt;1   0   history2   NONE</pre>
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m  Method  ASTM D5185m ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  *Visual	0 0 0 650 0 1280 limit/base >15 >20 limit/base NONE	<1 0 44 607 71 4243  current <1 <1 0  current NONE NONE	<1 2 36 617 75 4816 history1 1 1 2 history1 NONE NONE	<1 0 36 510 73 4155 history2 1 <1 0 history2 NONE
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m  Method  ASTM D5185m ASTM D5185m  ASTM D5185m  ASTM D5185m  *Visual  *Visual  *Visual	0 0 0 650 0 1280 limit/base >15 >20 limit/base NONE NONE NONE	<1 0 44 607 71 4243  current <1 0  current NONE NONE	<1 2 36 617 75 4816 history1 1 1 2 history1 NONE NONE	<1 0 36 510 73 4155 history2 1 <1 0 history2 NONE NONE NONE
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m  Method ASTM D5185m ASTM D5185m  ASTM D5185m  *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	0 0 0 650 0 1280 limit/base >15 >20 limit/base NONE NONE NONE	<1 0 44 607 71 4243  current <1 <1 0  current NONE NONE NONE NONE NONE NONE NONE NON	<1 2 36 617 75 4816 history1 1 1 2 history1 NONE NONE NONE NONE NONE NONE NONE	<1 0 36 510 73 4155 history2 1 <1 0 history2 NONE NONE NONE NONE NONE NONE
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m  Method  ASTM D5185m ASTM D5185m  *Visual	0 0 0 0 650 0 1280 limit/base >15 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	<1 0 44 607 71 4243  current <1 <1 0  current NONE NONE NONE NONE NONE NONE NONE NON	<1 2 36 617 75 4816 history1 1 1 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	<1 0 36 510 73 4155 history2 1 <1 0 history2 NONE NONE NONE NONE NONE NONE NONE NON
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	pppm pppm pppm pppm pppm pppm pppm ppp	ASTM D5185m  Method ASTM D5185m ASTM D5185m  ASTM D5185m  *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	0 0 0 650 0 1280 limit/base >15 >20 limit/base NONE NONE NONE	<1 0 44 607 71 4243  current <1 <1 0  current NONE NONE NONE NONE NONE NONE NONE NON	<1 2 36 617 75 4816 history1 1 1 2 history1 NONE NONE NONE NONE NONE NONE NONE	<1 0 36 510 73 4155 history2 1 <1 0 history2 NONE NONE NONE NONE NONE NONE

**Emulsified Water** 

scalar \*Visual

scalar \*Visual

>0.05

NEG

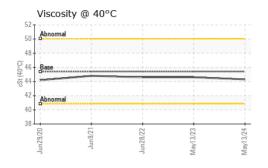
**NEG** 

NEG

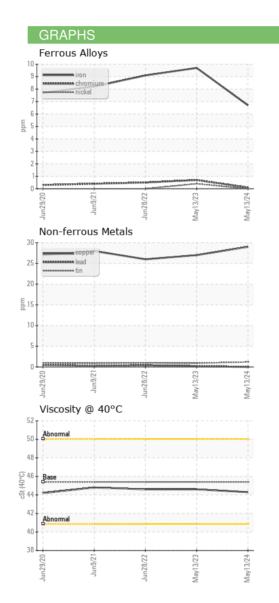
NSelomitted By: West Koziol



# **OIL ANALYSIS REPORT**



FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.4	44.3	44.6	44.6
SAMPLE IMAG	GES	method	limit/base	current	history1	history2
Color				no image	no image	
Bottom				no image	no image	





Sample No.

Lab Number : 06178033 Unique Number : 11029359

: PCA0125332

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024 **Tested** : 14 May 2024

Diagnosed : 15 May 2024 - Sean Felton

**ELGIN DIE MOLD** 14N002 PRAIRIE ST PINGREE GROVE, IL US 60140 Contact: STEVE METCALF pm@elgindiemold.com

Test Package : IND 1 Certificate 12367 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)

Report Id: ELGPIN [WUSCAR] 06178033 (Generated: 05/15/2024 16:15:58) Rev: 1

Submitted By: Matt Koziol

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