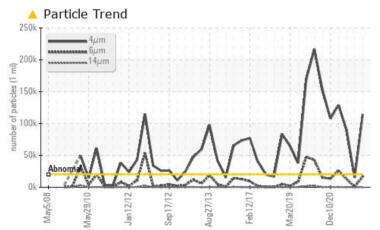


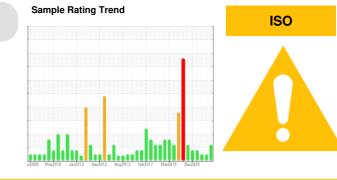
PROBLEM SUMMARY

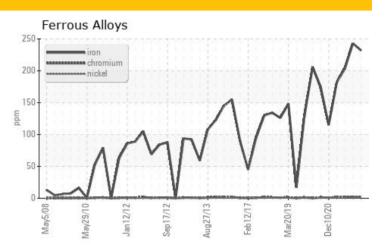
Area **1460** Machine Id **1460-5666-4003 - CU THICKENER MECH PLANETARY** Component **Planetary** Fluid

PETRO CANADA ENDURATEX XL 68/220 (20 LTR)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TE	EST RESULTS			
Sample Status		ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647 >20	0000 🔺 114217	15379	90014
Particles >6µm	ASTM D7647 >50	000 🔺 16767	981	12732
Oil Cleanliness	ISO 4406 (c) >21	1/19/16 🔺 24/21/16	21/17/12	24/21/15

Customer Id: INCVOS Sample No.: PC0070100 Lab Number: 02595469 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1 (289)291-4641 x4641 Bill.Quesnel@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDE	D ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



20 Oct 2021 Diag: Kevin Marson

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



DMAL



Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

17 Mar 2021 Diag: Kevin Marson



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. An increase in the iron level is noted. All other component wear rates are normal. Particles >4 μ m are abnormally high. Particles >6 μ m are abnormally high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

view report

Report Id: INCVOS [WCAMIS] 02595469 (Generated: 11/11/2023 12:56:31) Rev: 1



OIL ANALYSIS REPORT

Area **1460** Machine Id **1460-5666-4003 - CU THICKENER MECH PLANETARY** Component **Planetary** Fluid

PETRO CANADA ENDURATEX XL 68/220 (20 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

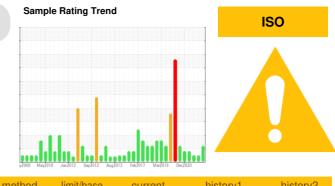
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0070100	PC0030031	PC0030072
Sample Date		Client Info		09 Oct 2023	20 Oct 2021	24 Jun 2021
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>150	232	243	203
Chromium	ppm	ASTM D5185(m)	>10	2	2	2
Nickel	ppm	ASTM D5185(m)	>10	1	1	1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>100	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>50	6	2	2
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		12	9	9
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		0	1	1
Manganese	ppm	ASTM D5185(m)		<1	1	1
Magnesium	ppm	ASTM D5185(m)		0	<1	<1
Calcium	ppm	ASTM D5185(m)		13	12	15
Phosphorus	ppm	ASTM D5185(m)	240	299	351	322
Zinc	ppm	ASTM D5185(m)		8	67	62
Sulfur	ppm	ASTM D5185(m)	4060	5434	5436	5310
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	2	1	2
Sodium	ppm	ASTM D5185(m)		<1	0	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	114217	15379	90014
Particles >6µm		ASTM D7647	>5000	16767	981	12732
Particles >14µm		ASTM D7647	>640	369	24	263
Particles >21µm		ASTM D7647		56	6	41
Particles >38µm		ASTM D7647	>40	3	0	1
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	. 24/21/16	21/17/12	24/21/15
					, ,	



🔺 Particle Count

🔺 Particle Trend

144

"und

Acid Number

enl

Sep17/12

Aug27/13

Sep17/12

IE

Viscosity @ 100°C

norma

214

491,520 122,880

(m 1.22,000 (m 1.30,720 7,680 1,920 1,920 480 480 120 30 30 30 8

> > 2 50

(B/HOX Bu) 1.50

40.50 Yrum 0.50

Maw5

Mav5/0

lav29/

E.

30

25 - Base (2 20 - Abn 정 15 -

OIL ANALYSIS REPORT

E F	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
-24	cid Number (AN)		ASTM D974*		0.75	0.75	0.65
-22 150 4406:1999 Cleanliness CW -16 Cleanliness CW -14 Inters COde	VISUAL		method	limit/base	current	history1	history2
1999 C	hite Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Ye	ellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Pr	ecipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Sil	lt	scalar	Visual*	NONE	NONE	NONE	NONE
De	ebris	scalar	Visual*	NONE	NONE	NONE	VLITE
Sa	and/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Ap	opearance	scalar	Visual*	NORML	NORML	NORML	NORML
Oc	dor	scalar	Visual*	NORML	NORML	NORML	NORML
En	nulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Fre	ee Water	scalar	Visual*		NEG	NEG	NEG
/ г		RTIES	method	limit/base	current	history1	history2
Vis	sc @ 40°C	cSt	ASTM D7279(m)	150.4	151	144	146
- Vis	sc @ 100°C	cSt	ASTM D7279(m)	22.28	22.0	21.0	21.1
Vis	scosity Index (VI)	Scale	ASTM D2270*	176	172	170	169
S	SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Co	blor					00000031	
Bc	ottom						

