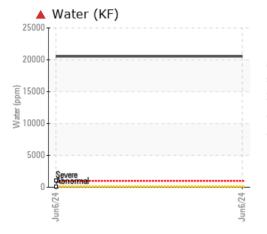


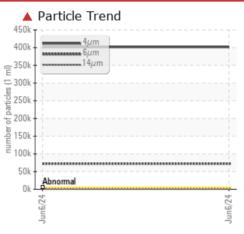
# Area

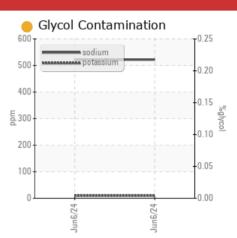
### **Vicinity Energy - 888095 FK420** Unknown Component

Fluid CHEVRON DELO 710 LE (--- GAL)

#### COMPONENT CONDITION SUMMARY







#### RECOMMENDATION

The sample submitted is wet and 16 times dirtier than the ISO dirt count of reference virgin oil (FK421, ISO 22/19/15)

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE			
Water	%	ASTM D6304*		<b>a</b> 2.052			
ppm Water	ppm	ASTM D6304*		<b>a</b> 20529			
Particles >4µm		ASTM D7647	>5000	<b>4</b> 01701			
Particles >6µm		ASTM D7647	>640	<b>A</b> 72351			
Particles >14µm		ASTM D7647	>160	<u> </u>			
Particles >21µm		ASTM D7647	>40	<b> </b> 107			
Oil Cleanliness		ISO 4406 (c)	>19/16/14	<b>a</b> 26/23/17			
Appearance	scalar	Visual*	NORML	🔺 MILKY			
Free Water	scalar	Visual*		<b>5</b> %			

Customer Id: CHECOB Sample No.: E30002356 Lab Number: 02641402 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Tatiana Sorkina +1 (800)263-3939 <u>tsorkina@e360s.ca</u>

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



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

# Vicinity Energy - 888095 FK420

Unknown Component Fluid CHEVRON DELO 710 LE (--- GAL)

#### DIAGNOSIS

#### Recommendation

The sample submitted is wet and 16 times dirtier than the ISO dirt count of reference virgin oil (FK421, ISO 22/19/15)

#### Contamination

Water contamination levels are severely high. Particles  $>6\mu$ m are severely high. Particles  $>4\mu$ m are severely high. Oil Cleanliness are severely high. Oil Cleanliness are severely high.. Oil Cleanliness are severely high... Particles  $>14\mu$ m are abnormally high. Particles  $>21\mu$ m are abnormally high.

#### Fluid Condition

Sodium ppm levels are notably high.

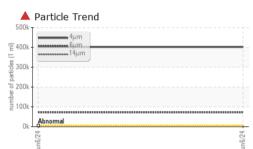
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine ID		Client Info		Engine Oil Pan		
Department		Client Info		Sales		
Sample From		Client Info		Machine		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		06/10/2024		
Sample Number		Client Info		E30002356		
Sample Date		Client Info		06 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		5		
Chromium	ppm	ASTM D5185(m)		5		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		1		
Lead	ppm	ASTM D5185(m)		2		
Copper	ppm	ASTM D5185(m)		1		
Tin	ppm	ASTM D5185(m)		0		
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)		48		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		42		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		19		
Calcium	ppm	ASTM D5185(m)		2896		
Phosphorus	ppm	ASTM D5185(m)		19		
Zinc	ppm	ASTM D5185(m)	10	25		
Sulfur	ppm	ASTM D5185(m)		1858		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		3		
Sodium	ppm	ASTM D5185(m)		<mark> </mark> 522		
Potassium	ppm	ASTM D5185(m)	>20	10		
Water	%	ASTM D6304*		<b>a</b> 2.052		
ppm Water	ppm	ASTM D6304*		<b>20529</b>		

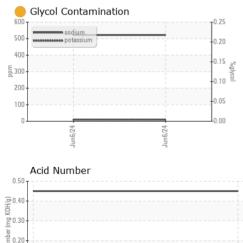




## **OIL ANALYSIS REPORT**

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Water (KF) 20000	4406:1999 Cleanliness Code
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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>4</b> 01701		
Particles >6µm		ASTM D7647	>640	<b>A</b> 72351		
Particles >14µm		ASTM D7647	>160	<u> </u>		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/16/14	<b>26/23/17</b>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.45		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	VLITE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	🔺 MILKY		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water	scalar	Visual*		<b>5</b> %		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	136.4	135		
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.4		
Viscosity Index (VI)	Scale	ASTM D2270*	117	105		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Environmental 360 Solutions Ltd. CALA Received : 12 Jun 2024 Sample No. : E30002356 640 Victoria Street Lab Number : 02641402 Tested : 13 Jun 2024 Cobourg, ON ISO 17025:2017 Accredited Laboratory CA K9A 5H5 Unique Number : 5798941 Diagnosed : 14 Jun 2024 - Tatiana Sorkina Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) Contact: Tatiana Sorkina tsorkina@e360s.ca To discuss this sample report, contact Customer Service at 1-905-372-2251. T: (800)263-3939 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. F: (905)373-4950

Report Id: CHECOB [WCAMIS] 02641402 (Generated: 06/14/2024 10:05:14) Rev: 1

Contact/Location: Tatiana Sorkina - CHECOB