**OIL ANALYSIS REPORT** 

**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

Machine Id

## ICE UNIT V-417/E1

**Propane Engine** 

**VÄLVOLINE BLUE HEAVY DUTY 15W40 (10 QTS)** 

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended	at this time. Decemble at the	Sample Number		Client Info		TR06146075		
next service interval to monitor.	at this time. Resample at the	Sample Date		Client Info		05 Mar 2024		
TIEST SELVICE INTERVAL TO THE INTERIOR.		Machine Age	hrs	Client Info		348		
		Oil Age	hrs	Client Info		348		
		Filter Age	hrs	Client Info		348		
		Oil Changed		Client Info		Not Changd		
		Filter Changed		Client Info		Not Changd		
		Sample Status				ABNORMAL		
WEAR		Iron	ppm	ASTM D5185m		130		
Metal levels are typical for a new comp	nponent breaking in.	Chromium	ppm	ASTM D5185m		5		
		Nickel	ppm	ASTM D5185m	>5	3		
		Titanium	ppm	ASTM D5185m		<1		
		Silver	ppm	ASTM D5185m		<1		
		Aluminum	ppm	ASTM D5185m		8		
		Lead	ppm	ASTM D5185m	>25	9		
		Copper	ppm	ASTM D5185m	>35	9		
		Tin	ppm	ASTM D5185m	>8	2		
		Vanadium	ppm	ASTM D5185m		<1		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
CONTABBINATION	Ciliana		ACTM DE10E	F0	A 05			
CONTAMINATION		Silicon	ppm	ASTM D5185m		<u>▲</u> 65		
Elemental level of silicon (Si) above r	normal indicating ingress of seal	Potassium	ppm	ASTM D5185m		8		
material.		Water	0/	WC Method	>0.1	NEG		
		Soot %	%	*ASTM D7844	00	0.1		
		Nitration	Abs/cm	*ASTM D7624	>20	10.1		
		Sulfation	Abs/.1mm	*ASTM D7415		23.1		
		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	>0.1	NEG			
FLUID CONDITION Sodium ppm ASTM D5185m						12		
		Boron	ppm	ASTM D5185m		15		
The BN result indicates that there is s		Barium	ppm	ASTM D5185m		<1		
oil. The condition of the oil is accepta		Molybdenum	ppm	ASTM D5185m		38		
		Manganese	ppm	ASTM D5185m		3		
		Magnesium	ppm	ASTM D5185m		542		
		Calcium	ppm	ASTM D5185m		1651		
		Phosphorus	ppm	ASTM D5185m		1274		
		Zinc	ppm	ASTM D5185m		1487		
		Sulfur	ppm	ASTM D5185m		2906		
		Oxidation	Abs/.1mm		>25	19.1		
		Base Number (BN)			720	6.45		
		Visc @ 100°C	cSt	ASTM D2030		14.8		
		VISC @ 100 C	COL	CPPU IVI DA	'	17.0		





Certificate L2367

Laboratory Sample No.

: TR06146075 Lab Number : 06146075 Unique Number: 10976153 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Apr 2024 **Tested** : 12 Apr 2024 : 15 Apr 2024 - Don Baldridge

Diagnosed

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

**SHELTON SERVICES** 

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T: F: