

# WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

#### [166419] Machine Id TINHBASCHPU Component Hydraulic System Fluid ESSO UNIVIS N 22 (1680 LTR)

#### RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. The filter change at the time of sampling has been noted. 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. There is a moderate concentration of water present in the oil. Free water present.

## FLUID CONDITION

The AN level is acceptable for this fluid.

	Test	UOM	Method	Limit/Abn	Cı	urrent	His	tory1	Hi	story2
	Sample Number		Client Info		W	C0862807	WC	0862798	W	0602580
	Sample Date		Client Info		06	May 2024	03 (	Oct 2023	01	Nov 2021
	Machine Age	mths	Client Info		0		0		0	
	Oil Age	mths	Client Info		8		2		8	
	Filter Age	mths	Client Info		12	2	6		1	
	Oil Changed		Client Info		No	t Changd	Cha	anged	No	t Changd
	Filter Changed		Client Info		CI	nanged	Cha	anged	Cł	nanged
	Sample Status				AE	NORMAL	ABN	JORMAL	AB	NORMAL
	Iron	ppm	ASTM D5185(m)	>20		4	(	3		3
	Chromium	ppm	ASTM D5185(m)	>20		0	(	)		0
		ppm	ASTM D5185(m)	>20		0	(	)		<1
	Litanium	ppm	ASTM D5185(m)			0	(	)		0
1	Silver	ppm	ASTM D5185(m)	0.0		0	4	<		<
	Aluminum	ppm	ASTM D5185(m)	>20		0	<	<1		<1
	Lead	ppm	ASTM D5185(m)	>20		6	•	<1		3
	Copper	ppm	ASTM D5185(m)	>20		2		1		2
	i in	ppm	ASTM D5185(m)	>20		U	(	J		<1
	Vanadium	ppm	ASTM D5185(m)	NONE		0	(	)		0
	White Metal	scalar	Visual*	NONE		NONE	1	NONE		NONE
	Yellow Metal	scalar	Visual	NONE		NONE		NONE		NONE
	Silicon	nnm	ASTM D5185(m)	>15		0		<1		<1
	Potassium	nnm	ASTM D5185(m)	>20		۰ ح1	(	)		~1
1	Water	%	ASTM D6304*	>0.05		0.068	(	003		0 192
1	opm Water	nom	ASTM D6304*	>500		680	-	26.2		1927.2
1	Particles >4um	ppiii	ASTM D7647	>5000		25845		11268	_	4226
	Particles >6um		ASTM D7647	>1300		2546		1150		333
	Particles >14um		ASTM D7647	>160		29		10		7
	Particles >21um		ASTM D7647	>40		6	1	2		0
	Particles >38µm		ASTM D7647	>10		1	(	C		0
	Particles >71µm		ASTM D7647	>3		0	(	C		0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14		22/19/12	<b>A</b> 2	21/17/10		19/16/10
	Silt	scalar	Visual*	NONE		NONE	1	NONE		NONE
	Debris	scalar	Visual*	NONE		NONE	1	NONE		NONE
	Sand/Dirt	scalar	Visual*	NONE		NONE	1	NONE		NONE
	Appearance	scalar	Visual*	NORML		HAZY	🔺 I	HAZY		NORML
	Odor	scalar	Visual*	NORML		NORML	1	NORML		NORML
	Emulsified Water	scalar	Visual*	>0.05		.5%		2%		.5%
1	Sodium	ppm	ASTM D5185(m)			0	(	0		0
	Boron	ppm	ASTM D5185(m)	.3		<1	4	<1		<1
	Barium	ppm	ASTM D5185(m)	0		<1	•	<1		<1
	Molybdenum	ppm	ASTM D5185(m)	0		0	(	)		0
	wanganese	ppm	ASTM D5185(m)	0		U	(	J		U
	Nagnesium	ppm	ASTM D5185(m)	0		<1	(	)		<
i.		ppm	ASTM D5185(m)	49		10		9		0
		ppm	ASTM D5185(m)	192		309		311		302
i.		ppm		231		387		1050		3/4
		ppm				2141		1952		1291
		ing KUH/g	ASTM D7070/cm	00		0.48	(	1.51		0.37
		COL	A91MD/2/9(M)	22		23.0	4	<2.0		22.J



ALGONQUIN POWER SYSTEMS INC. Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. 354 DAVIS ROAD : WC0862807 Received :09 May 2024 Lab Number : 13 May 2024 : 02634322 Tested OAKVILLE, ON ISO 17025:2017 Accredited : 13 May 2024 - Kevin Marson Unique Number : 5775475 Diagnosed CA L6J 2X1 Laboratory Test Package : IND 2 (Additional Tests: KF, TAN Man) Contact: Antonino Champ Fernando To discuss this sample report, contact Customer Service at 1-800-268-2131. antoninoChamp.fernando@algonquinpower.com T: (905)465-7065 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: x: Validity of results and interpretation are based on the sample and information as supplied.