

## **OIL ANALYSIS REPORT**

Sample Rating Trend



### Area [MARWOOD 3] 11929 **Hydraulic System**

AW HYDRAULIC OIL ISO 46 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0862423		
Sample Date		Client Info		10 Jul 2024		
Machine Age	yrs	Client Info		3		
Dil Age	yrs	Client Info		0		
Oil Changed		Client Info		Filtered		
Sample Status				NORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>20	<1		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	<1		
Fitanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
_ead	ppm	ASTM D5185(m)	>20	0		
Copper	ppm	ASTM D5185(m)	>20	<1		
Fin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)	20	0		
/anadium		ASTM D5185(m)		0		
	ppm	. /		0		
Beryllium	ppm	ASTM D5185(m)				
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<1		
Barium	ppm	ASTM D5185(m)	5	0		
Nolybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	25	2		
Calcium	ppm	ASTM D5185(m)	200	65		
Phosphorus	ppm	ASTM D5185(m)	300	317		
Zinc	ppm	ASTM D5185(m)	370	380		
Sulfur	ppm	ASTM D5185(m)	2500	3320		
_ithium	ppm	ASTM D5185(m)		<1		
	lele	( /	limit/booo		biotoryd	biotom/Q
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	0		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
FLUID CLEANLIN	ESS	method ASTM D7647	limit/base >5000	current 3247	history1	nistory2
FLUID CLEANLIN Particles >4µm	ESS		>5000		-	
FLUID CLEANLIN Particles >4μm Particles >6μm	ESS	ASTM D7647	>5000	3247		
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm	ESS	ASTM D7647 ASTM D7647	>5000 >1300 >160	3247 363		
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm	ESS	ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160	3247 363 23		
FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ESS	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160 >40 >10	3247 363 23 6		
	ESS	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160 >40 >10	3247 363 23 6 1		



61

ber of particles (1 ml) 4k 3k 5k

1k 0k

(B/H0.80 (mg KOH/g) (mg KOH/g) Base

-a u 0.40 .20 Pciq Abno

0.00

52 Abnormal 50 48 (J- 46 St (40-C) Base

42

6k

f particles (1 ml) 8 4 k 3 k

÷ ie 2k In 1k 0k · Jul10/24

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Abnormal 40 38. Jul10/24

1.00 T Abnormal

# **OIL ANALYSIS REPORT**

4µm	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
international δμm	Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.47		
14μm	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Descipitate	scalar	Visual*	NONE	NONE		
	·	scalar	Visual*	NONE	NONE		
	Silt Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
cid Number	Appearance	scalar	Visual*	NORML	NORML		
bnormal	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.05	NEG		
ase	Free Water	scalar	Visual*		NEG		
	FLUID PROPERT	TIES	method	limit/base	current	history1	history2
bnormal	Visc @ 40°C	cSt	ASTM D7279(m)	46	42.8		
	-		method	limit/base			
			method	- IIIII/Dase	current	history1	history2
issocity @ 40%C							
iscosity @ 40°C	Color					no image	no image
bnomal							
269							
388	Bottom					no image	no image
	Dottom				2 martin	nonnaye	no maye
bnormal							
	GRAPHS						
	Ferrous Alloys			491,52	Particle Count		. 20
	iron						20
article Trend	a 5-			122,88	Severe		+24
onoma 4µm				30,72			-22
ματικατικά 6μm				5. TE 7,68	Abnormal		-20
	Jul10/24			Juli 0/24 1611 ml) 1611 Juli 0/24	N		-18
	→ Non-ferrous Meta	e		r) sajoju 48			16
	<sup>10</sup> T	3		5			10
	copper			ja 12			14
Ĭ	E 5-			an 3			-12
					3-		10
	24 24	*******		/24	2	/	8
	Juli 0/			Jul10/24			
	Viscosity @ 40°C				A stal. Nix use is a st	14μ 21μ	38µ 71µ
	55 <sub>T</sub>			 ₽1.0	ACIU NUMDEr		
	50 - Base			1g KOI	Action Number Abnomal Base		
	30 Base 60 45 - Base 80 - 45 - Base			는 0.5		****	
	40 -			- Num	Abnormal		
	354			0.0 Acid			
	Jul10/24			Jul10/24	Jul10/24		
				-	-		
	WaarChack CQ 117	5 Annloh	Ine Purlin				יד ו פדיוותר
		5 Appleby <b>Recei</b>		ngton, ON L7 1 Jul 2024	L 5H9 DYNAI	MIC FLUID PRO 40 CE	
Sample No. Sample No.			ived :11		L 5H9 DYNAI	40 CE	EDAR STREE
ISO 17025:2017 Accredited Unique Numb	o. : WC0862423 per : 02647348 ber : 5812900	Recei Teste Diagn	ived : 11 id : 12 nosed : 12	1 Jul 2024		40 CE TILLS	EDAR STREE SONBURG, O CA N4G 4H
ISO 17025:2017 Accredited Laboratory Test Packa	o. : WC0862423 per : 02647348	Recei Teste Diagn sts: TAN I	ived : 11 d : 12 nosed : 12 Man )	1 Jul 2024 2 Jul 2024 2 Jul 2024 - W		40 CE TILLS Contac	ODUCTS LTI EDAR STREE CONBURG, O CA N4G 4H ct: Sean Barre namicfluid.co

Report Id: DYNTIL [WCAMIS] 02647348 (Generated: 07/12/2024 09:28:41) Rev: 1

Validity of results and interpretation are based on the sample and information as supplied.

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