

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **PLANT 1 LATHE HPU 2**

Component Hydraulic System CONOCO MEGAFLOW AW 46 (--- GAL)

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### Fluid Condition

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

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0002644		
Sample Date		Client Info		09 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	l	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		22		
Iron	ppm	ASTM D5185m	>20	3		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>20	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>20	3		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		225		
Zinc	ppm	ASTM D5185m		144		
Sulfur	ppm	ASTM D5185m		495		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLINI	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1864		
Particles >6µm		ASTM D7647	>1300	306		
Particles >14μm		ASTM D7647	>160	21		
Particles >21µm		ASTM D7647	>40	6		
Particles >38µm		ASTM D7647	>10	1		

ASTM D7647 >3

ISO 4406 (c) >19/17/14

0

18/15/12

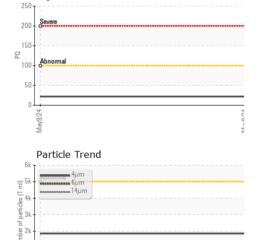
Particles >71µm

**Oil Cleanliness** 



## **OIL ANALYSIS REPORT**

PQ	FLUID DEGRADA	
Severe	Acid Number (AN)	mg KOH/g
	VISUAL	0 0
Abnormal	White Metal	scalar
	Yellow Metal	scalar
	Precipitate	scalar
	Silt	scalar
	+276/heren Silt Debris	scalar
	Sand/Dirt	scalar
article Trend	Appearance	scalar
ononna 4µm	Odor	scalar
14μm	Emulsified Water	scalar
	Free Water	scalar
	FLUID PROPERT	ES
	Visc @ 40°C	cSt
	SAMPLE IMAGES	
/iscosity @ 40°C	Color	
Abnormal		
Base		
	Bottom	
Abnormal	GRAPHS	
	Ferrous Alloys	
-	iron	



0

FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.38	0.23		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
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	>0.05	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	41.9		
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color				-	no image	no image
Bottom					no image	no image
GRAPHS						
Ferrous Alloys			101 500	Particle Count	t	20
10 iron ]			491,520	1		T <sup>26</sup>
5 - nickel			122,880	Severe		-24
			30,720			-22
				Abnormal		-20 8
May9/24			(per 1 m) 076'1	· · · ·		-18 -16 -14
			Cles (i	1		-16
Non-ferrous Metals	5		offined jo			10
copper			+526/beu 1,980			-14
5 - 5 -			30	-		-12
			8	-		-10
0	************	*****	42/ 2			-8
May9/24			lay9			
Viscosity @ 40°C			≥ 0	Acid Number	14µ 21µ	38µ 71µ
55 Jahaamal			울 <sub>0.40</sub>	ACIO NUMDER		
50 - Base			9.30	-		
45 - Abnormal			돌 0.20	1		
			(b)(HO) 40 (b)(HO) 50.00 (b)(HO) 10 (b)(HO) 10 (c)(HO)	•		
32 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-			May9/24	May9/24		May9/24 +
Ma			Ma	Ma		Ma
WearCheck USA - 501 PE0002644 0 <mark>6213330</mark> 11086194 PLANT ( Additional Te	Recei Teste Diagr	ived : 18 id : 19 nosed : 20	3 Jun 2024 9 Jun 2024 Jun 2024 - Don	Baldridge	ENGINEERED W	00D PRODUCTS 141 14TH ST LYONS, OR US 97358 GERRITT LAW

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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)

Report Id: FRELYO [WUSCAR] 06213330 (Generated: 06/21/2024 20:30:52) Rev: 1

Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package

Contact/Location: GERRITT LAW - FRELYO

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