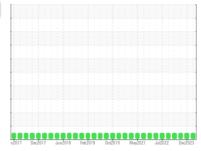


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id

# **BRANER 1 - BRANER**

Hydraulic System

**AW HYDRAULIC OIL ISO 46 (--- GAL)** 

## Recommendation

Resample at the next service interval to monitor.

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.

nZ017 Oec2017 JunZ018 Feb.2019 Oec2019 May2021 Jul2022 Dec2023									
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PTK0005685	PTK0005342	PTK0004697			
Sample Date		Client Info		02 Apr 2024	29 Dec 2023	27 Sep 2023			
Machine Age	hrs	Client Info		0	0	0			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATION	l	method	limit/base	current	history1	history2			
Water		WC Method	>0.1	NEG	NEG	NEG			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>20	0	0	0			
Chromium	ppm	ASTM D5185m	>10	0	0	0			
Nickel	ppm	ASTM D5185m	>10	0	0	0			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m		0	0	0			
Aluminum	ppm	ASTM D5185m	>10	0	0	0			
Lead	ppm	ASTM D5185m	>10	0	0	0			
Copper	ppm	ASTM D5185m	>75	29	28	28			
Tin	ppm	ASTM D5185m	>10	<1	0	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	5	0	0	0			
Barium	ppm	ASTM D5185m	5	0	0	0			
Molybdenum	ppm	ASTM D5185m	5	0	0	0			
Manganese	ppm	ASTM D5185m		<1	0	<1			
Magnesium	ppm	ASTM D5185m	25	1	0	4			
Calcium	ppm	ASTM D5185m	200	43	38	44			
Phosphorus	ppm	ASTM D5185m	300	360	304	328			
Zinc	ppm	ASTM D5185m	370	402	358	377			
Sulfur	ppm	ASTM D5185m	2500	1763	1314	1409			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>20	<1	<1	<1			
Sodium	ppm	ASTM D5185m		2	<1	0			
Potassium	ppm	ASTM D5185m	>20	2	0	<1			
FLUID CLEANLINI	ESS	method	limit/base	current	history1	history2			
Particles >4μm		ASTM D7647		441	1264	1348			
Particles >6µm		ASTM D7647	>2500	87	249	319			
Particles >14µm		ASTM D7647	>320	6	15	23			
Particles >21µm		ASTM D7647	>80	2	4	7			
Particles >38μm		ASTM D7647	>20	0	1	0			
Particles >71µm		ASTM D7647	>4	0	0	0			
Oil Cleanliness		ISO 4406 (c)	>/18/15	16/14/10	17/15/11	18/15/12			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			

Acid Number (AN)

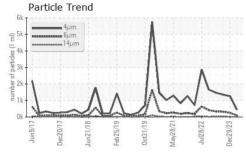
mg KOH/g ASTM D8045 0.57

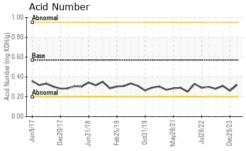
0.26

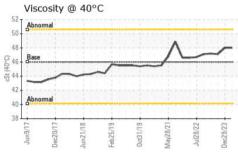
0.31 Contact/Location: RICK FAUE - VIKMIN

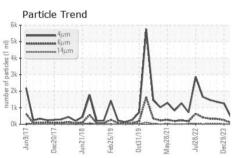


## **OIL ANALYSIS REPORT**







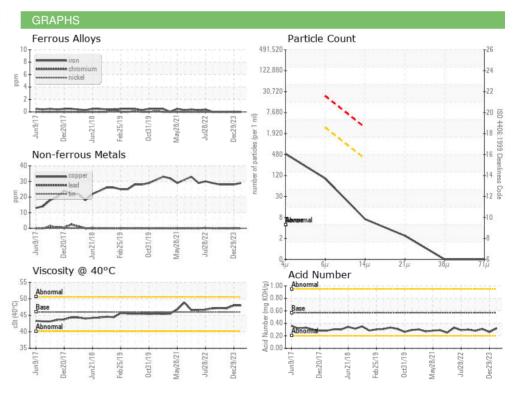


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2

Visc @ 40°C	.1

SAMPLE IMAGES Color









Certificate 12367

Laboratory Sample No.

Lab Number : 06218218 Unique Number : 11096415

Test Package : MOB 2

: PTK0005685

**Bottom** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 **Tested** : 25 Jun 2024 Diagnosed

: 25 Jun 2024 - Wes Davis

3225 COMO AVE MINNEAPOLIS, MN US 55414 Contact: RICK FAUE rickf@vikingmaterials.com T: (612)617-5800

**VIKING MATERIALS** 

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)

F: (612)917-5814 Contact/Location: RICK FAUE - VIKMIN

Report Id: VIKMIN [WUSCAR] 06218218 (Generated: 06/25/2024 11:58:11) Rev: 1