

# **PROBLEM SUMMARY**

Sample Rating Trend

**DEGRADATION** 



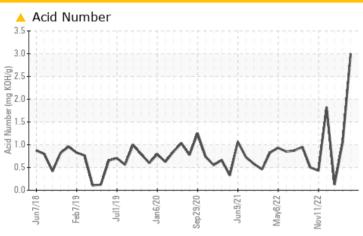
Machine Id **C 2605 C 2605** 

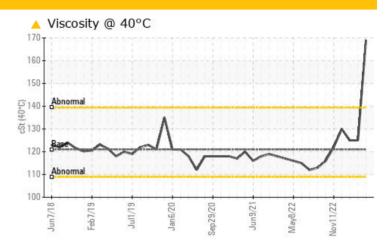
Component

Reciprocating Compressor

**MOBIL PEGASUS 89 (--- GAL)** 

# **COMPONENT CONDITION SUMMARY**





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# RECOMMENDATION

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS								
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL		
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>△</b> 3.00	1.055	0.127		
Silt	scalar	*Visual	NONE	MODER	NONE	NONE		
Visc @ 40°C	cSt	ASTM D445	121	<b>169</b>	125	125		

Customer Id: BPEMPU Sample No.: HLC0002539 Lab Number: 05924180 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

### **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Service/change Fluid			?	The oil is near the end of it's useful service life, recommend schedule an oil change.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

# HISTORICAL DIAGNOSIS

#### 09 Jun 2023 Diag: Jonathan Hester

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



# 07 Apr 2023 Diag: Don Baldridge

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

# view report

# 07 Jan 2023 Diag: Doug Bogart

#### NORMAL



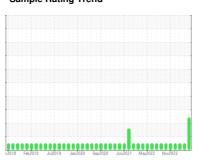
Resample at the next service interval to monitor. Particle count performed inadvertently. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

**Sample Rating Trend** 



**DEGRADATION** 



C 2605 C 2605

Component

Reciprocating Compressor

**MOBIL PEGASUS 89 (--- GAL)** 

# DIAGNOSIS

#### Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of visible silt present in the sample.

# Fluid Condition

The oil viscosity is higher than normal. The AN level is at the top-end of the recommended limit.

	n2018 Feb2019 Jul2019 Jen2020 Sep2020 Jun2021 Mey2022 Nev2022							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		HLC0002539	HLC0002576	HLC0001941		
Sample Date		Client Info		06 Aug 2023	09 Jun 2023	07 Apr 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				ABNORMAL	NORMAL	NORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	7	1	<1		
Chromium	ppm	ASTM D5185m	>10	<1	0	0		
Nickel	ppm	ASTM D5185m		0	0	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m		0	0	0		
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1		
Lead	ppm	ASTM D5185m	>25	0	1	0		
Copper	ppm	ASTM D5185m	>50	<1	3	2		
Tin	ppm	ASTM D5185m	>15	<1	<1	0		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		<1	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		0	0	0		
Barium	ppm	ASTM D5185m		0	0	0		
Molybdenum	ppm	ASTM D5185m		0	<1	<1		
Manganese	ppm	ASTM D5185m		<1	0	<1		
Magnesium	ppm	ASTM D5185m		13	7	15		
Calcium	ppm	ASTM D5185m		3313	2600	2397		
Phosphorus	ppm	ASTM D5185m		283	222	218		
Zinc	ppm	ASTM D5185m		332	250	236		
Sulfur	ppm	ASTM D5185m		5695	4705	4639		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	7	10	12		
Sodium	ppm	ASTM D5185m		1	0	0		
Potassium	ppm	ASTM D5185m	>20	13	2	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647			342	506		
Particles >6µm		ASTM D7647	>2500		87	116		
Particles >14μm		ASTM D7647	>320		10	9		
Particles >21µm		ASTM D7647	>80		2	3		
Particles >38µm		ASTM D7647	>20		1	0		
Particles >71µm		ASTM D7647	>4		1	0		
Oil Cleanliness		ISO 4406 (c)	>/18/15		16/14/10	16/14/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		

**3.00** 

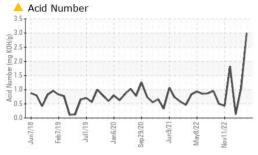
Acid Number (AN) mg KOH/g ASTM D8045

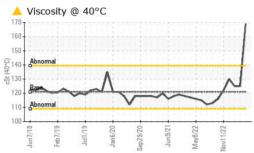
1.055

0.127



# **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	▲ MODER	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 cSt **169** 125 125 ASTM D445 121

SAMPLE IMAGES

method limit/base

current

history1

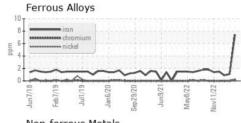
history2

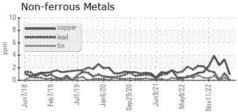


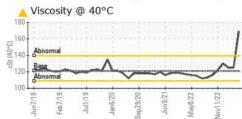
#### **GRAPHS**

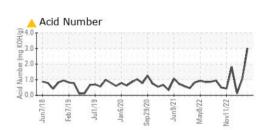
Color

**Bottom** 













Laboratory Sample No. Lab Number Unique Number : 10604127

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05924180

: HLC0002539

Received : 14 Aug 2023 Diagnosed Diagnostician : Doug Bogart

: 15 Aug 2023

Test Package : IND 2 ( Additional Tests: PrtCount ) 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)

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