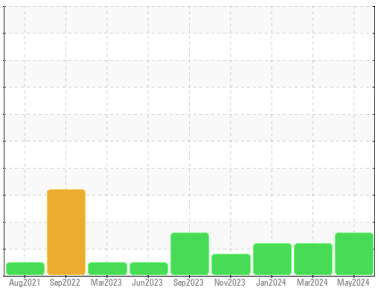
Sullivan Palatek

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
PALASYN 45
Machine Id
SULLIVAN PALATEK DG-40 21DE002049
Component
Compressor

DIAGNOSIS

Recommendation
We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a light concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**UCS06196760**	UCS06108770	UCS06051505
Sample Date		Client Info		**29 May 2024**	04 Mar 2024	02 Jan 2024
Machine Age	hrs	Client Info		**11949**	10998	10288
Oil Age	hrs	Client Info		**1986**	1035	325
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ATTENTION	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**7**	0	8
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	<1
Nickel	ppm	ASTM D5185m		**0**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	2	1
Lead	ppm	ASTM D5185m	>25	**<1**	0	<1
Copper	ppm	ASTM D5185m	>50	**2**	<1	<1
Tin	ppm	ASTM D5185m	>15	**<1**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.0	**<1**	1	2
Barium	ppm	ASTM D5185m	0.0	**<1**	0	2
Molybdenum	ppm	ASTM D5185m	0	**<1**	0	<1
Manganese	ppm	ASTM D5185m	0	**0**	0	0
Magnesium	ppm	ASTM D5185m	0.0	**<1**	2	6
Calcium	ppm	ASTM D5185m	0.0	**<1**	0	8
Phosphorus	ppm	ASTM D5185m	966	**644**	531	672
Zinc	ppm	ASTM D5185m	0	**109**	0	0
Sulfur	ppm	ASTM D5185m	1309	**318**	471	443

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**1**	1	1
Sodium	ppm	ASTM D5185m		**0**	<1	0
Potassium	ppm	ASTM D5185m	>20	**1**	1	0
Water	%	ASTM D6304	>0.1	▲ **0.160**	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ **1600**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.172	**1.40**	1.57	1.55

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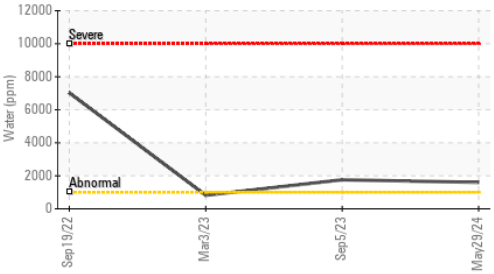
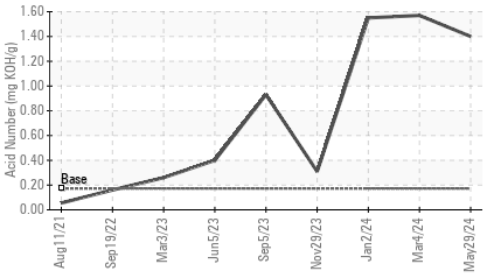
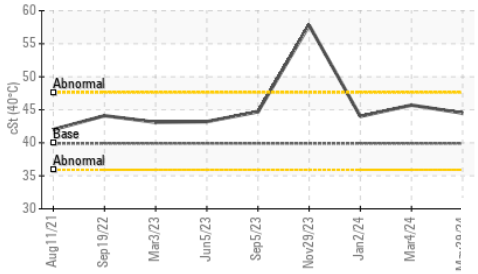
Water (KF)



Acid Number



Viscosity @ 40°C



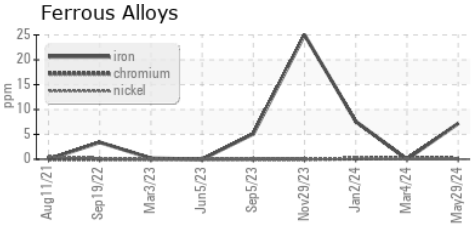
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	MODER
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**0.2%**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	39.9	**44.5**	45.7	44.0

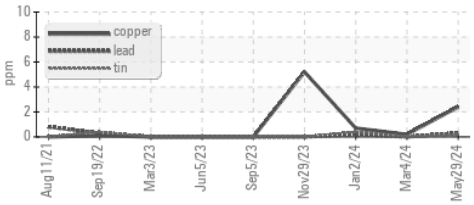
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS

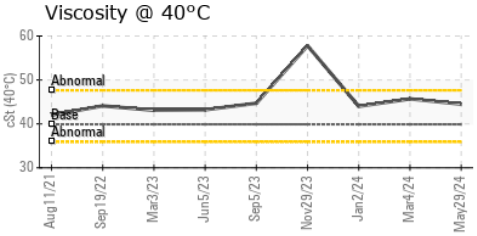
Ferrous Alloys



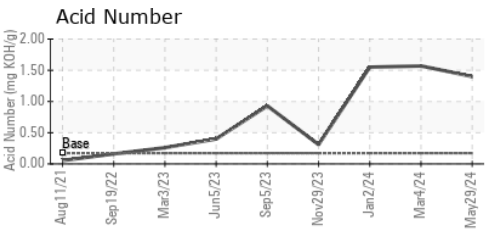
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCS06196760
Lab Number : 06196760
Unique Number : 11058883
Test Package : IND 2 (Additional Tests: KF)

Received : 31 May 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Sean Felton

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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