



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id **PALATEK 11A025 - NATIONWIDE CONSTRUCTION**

Component **Compressor**

Fluid **QUINCY QUINSYN (--- GAL)**

**RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO50002107</b>	QUC0000163	QUC0000059
Sample Date		Client Info		<b>22 Jan 2024</b>	22 Nov 2022	10 Aug 2022
Machine Age	hrs	Client Info		<b>32517</b>	31250	30792
Oil Age	hrs	Client Info		<b>0</b>	0	1000
Filter Age	hrs	Client Info		<b>0</b>	0	1000
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	SEVERE	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	6	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>1</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

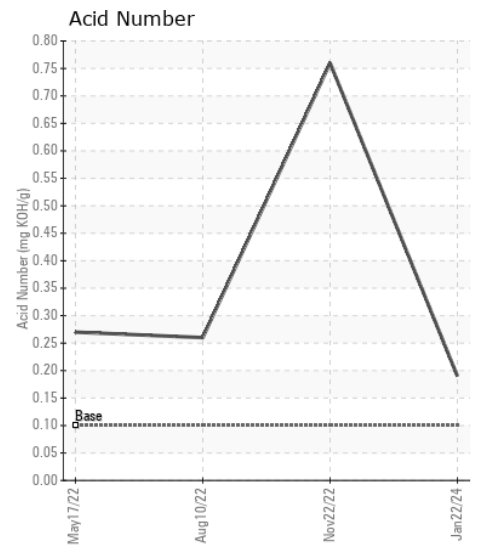
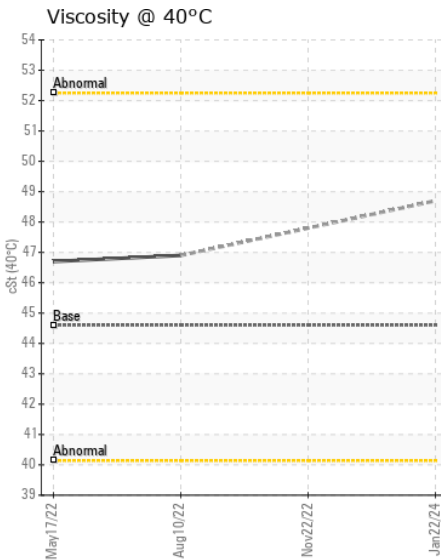
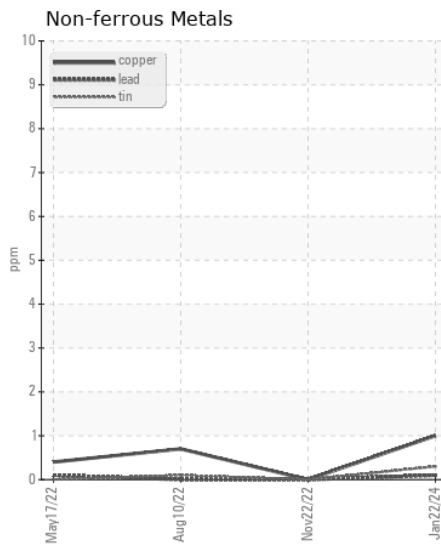
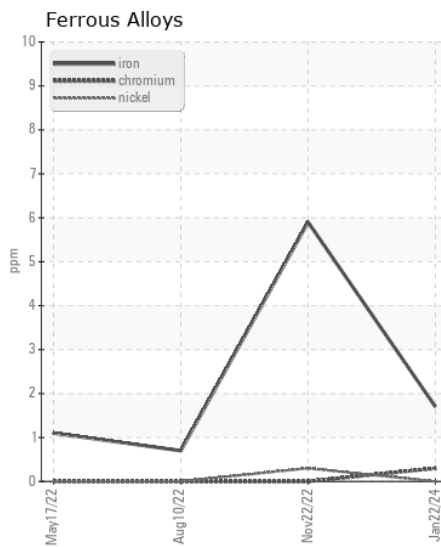
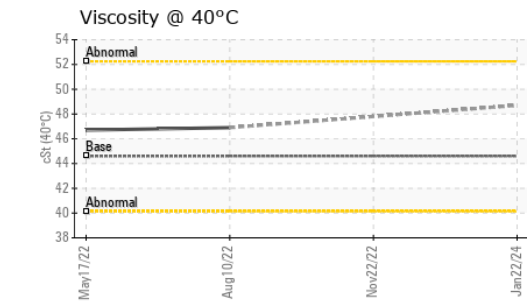
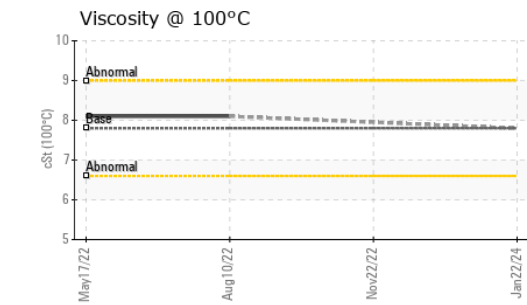
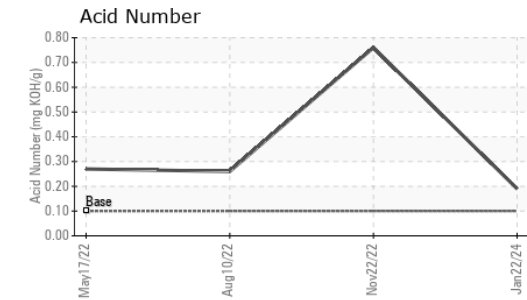
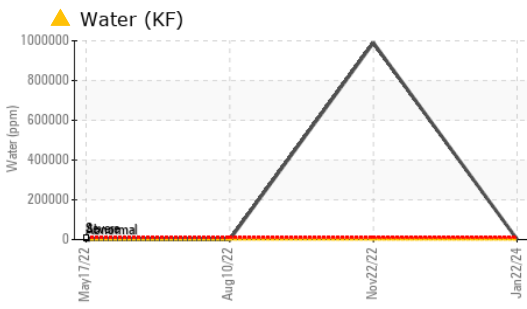
There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water	%	ASTM D6304	>0.1	<b>0.115</b>	99.0	0.007
ppm Water	ppm	ASTM D6304	>1000	<b>1157</b>	990000	70.9
Particles >4µm		ASTM D7647	>10000	---	---	9449
Particles >6µm		ASTM D7647	>2500	---	---	1304
Particles >14µm		ASTM D7647	>320	---	---	63
Particles >21µm		ASTM D7647	>80	---	---	17
Particles >38µm		ASTM D7647	>20	---	---	0
Particles >71µm		ASTM D7647	>4	---	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	---	---	20/18/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>MODER</b>	MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	MILKY	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	0.2%	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>4</b>	<1	4
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Phosphorus	ppm	ASTM D5185m		<b>212</b>	17	138
Zinc	ppm	ASTM D5185m		<b>45</b>	0	71
Sulfur	ppm	ASTM D5185m		<b>742</b>	5	1109
Acid Number (AN)	mg KOH/g	ASTM D8045	.10	<b>0.19</b>	0.76	0.26
Visc @ 40°C	cSt	ASTM D445	44.6	<b>48.7</b>	---	46.9
Visc @ 100°C	cSt	ASTM D445	7.8	<b>7.8</b>	---	8.1
Viscosity Index (VI)	Scale	ASTM D2270	132	<b>127</b>	---	146



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50002107 **Recieved** : 30 Jan 2024  
**Lab Number** : 06074706 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10856797 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

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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