IND II QUALITY COMPRESSOR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
POLAR AIR 56747-F - NEW TECH
Component
Compressor
Fluid
QUINCY QUINSYN (3 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. 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

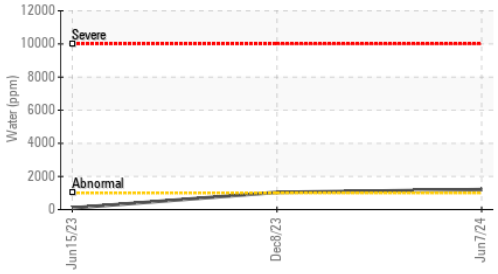
Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

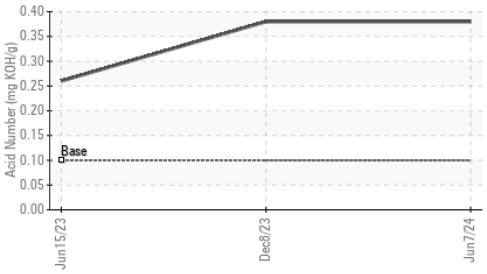
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		QUC0000906	QUC0000593	QUC0000332
Sample Date		Client Info		07 Jun 2024	08 Dec 2023	15 Jun 2023
Machine Age	hrs	Client Info		12619	11230	9880
Oil Age	hrs	Client Info		0	1000	9880
Filter Age	hrs	Client Info		0	1000	2000
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>50	4	<1	6
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	1	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	1	1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	<1	<1	1
Potassium	ppm	ASTM D5185m	>20	<1	3	5
Water	%	ASTM D6304	>0.1	▲ 0.121	▲ 0.104	0.009
ppm Water	ppm	ASTM D6304	>1000	▲ 1210	▲ 1040	97.9
Particles >4µm		ASTM D7647	>10000	---	● 14562	● 15470
Particles >6µm		ASTM D7647	>2500	---	● 4456	● 4160
Particles >14µm		ASTM D7647	>320	---	● 422	305
Particles >21µm		ASTM D7647	>80	---	● 121	60
Particles >38µm		ASTM D7647	>20	---	5	0
Particles >71µm		ASTM D7647	>4	---	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	---	● 21/19/16	● 21/19/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	0.2%	NEG
Sodium	ppm	ASTM D5185m		3	6	12
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m		<1	1	8
Calcium	ppm	ASTM D5185m		51	2	95
Phosphorus	ppm	ASTM D5185m		212	193	74
Zinc	ppm	ASTM D5185m		212	128	57
Sulfur	ppm	ASTM D5185m		1321	1151	554
Acid Number (AN)	mg KOH/g	ASTM D8045	.10	0.38	0.38	0.26
Visc @ 40°C	cSt	ASTM D445	44.6	47.2	47.0	51.1
Visc @ 100°C	cSt	ASTM D445	7.8	7.9	8	8.5
Viscosity Index (VI)	Scale	ASTM D2270	132	137	142	142

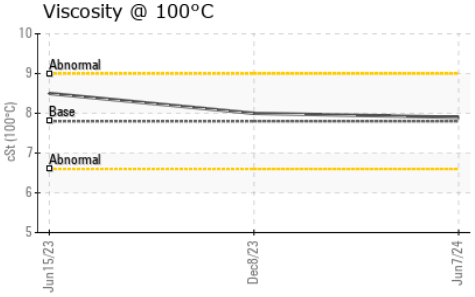
Water (KF)



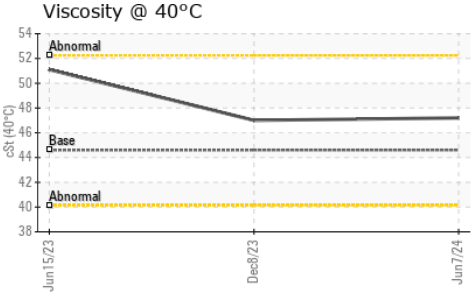
Acid Number



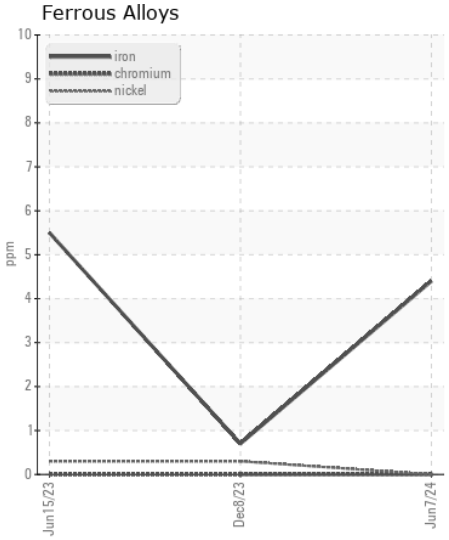
Viscosity @ 100°C



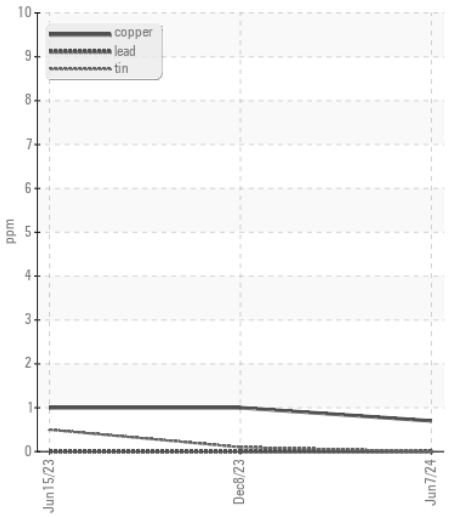
Viscosity @ 40°C



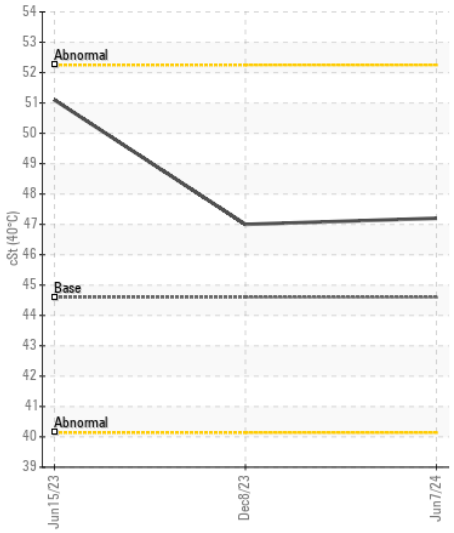
Ferrous Alloys



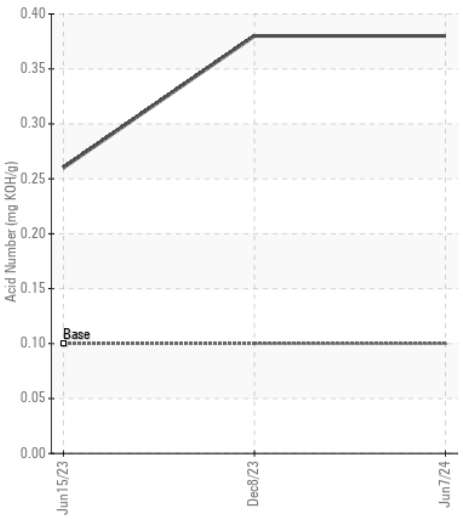
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : QUC0000906 **Received** : 14 Jun 2024
Lab Number : 06210094 **Tested** : 18 Jun 2024
Unique Number : 11082958 **Diagnosed** : 18 Jun 2024 - Angela Borella
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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