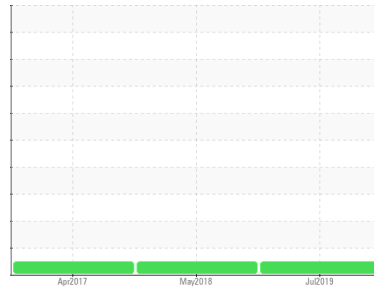


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
QUINCY QUINCY VACUUM PUMP 8
Component
Vacuum Pump
Fluid
TULCO LUBSOIL SYNTHETIC COMPRESSOR 46 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	TO5010835	TO5010019	TO5007952
Sample Date	Client Info	23 Jul 2019	14 May 2018	03 Apr 2017
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION method limit/base current history1 history2

Water	WC Method	NEG	NEG	NEG
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WEAR METALS method limit/base current history1 history2

PQ	ASTM D8184	16	---	12
Iron	ppm	ASTM D5185m >500	<1	<1
Chromium	ppm	ASTM D5185m >7	0	0
Nickel	ppm	ASTM D5185m	0	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >25	<1	<1
Lead	ppm	ASTM D5185m >35	2	0
Copper	ppm	ASTM D5185m >50	1	1
Tin	ppm	ASTM D5185m >5	<1	0
Antimony	ppm	ASTM D5185m	2	1
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	<1	<1
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	<1	0
Magnesium	ppm	ASTM D5185m	2	2
Calcium	ppm	ASTM D5185m	4	4
Phosphorus	ppm	ASTM D5185m 74	47	54
Zinc	ppm	ASTM D5185m	12	12
Sulfur	ppm	ASTM D5185m 1000	440	381

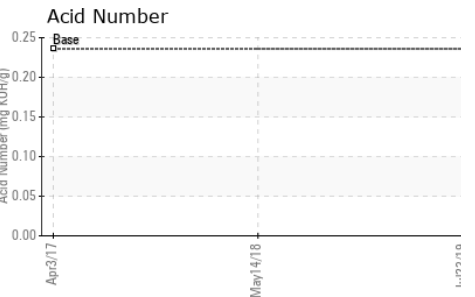
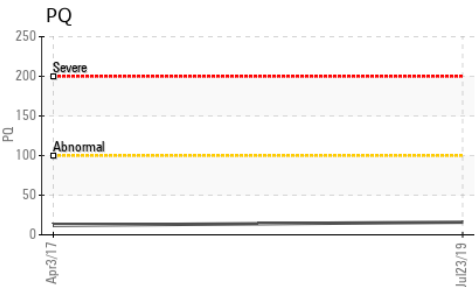
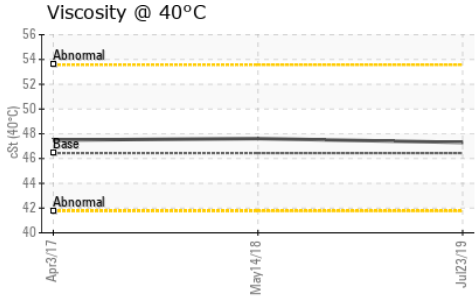
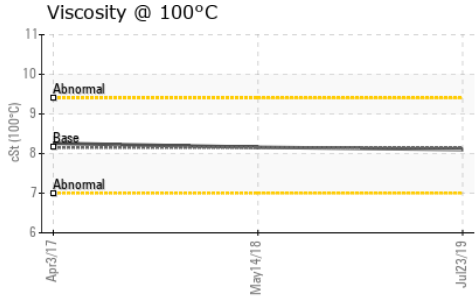
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m >50	<1	<1
Sodium	ppm	ASTM D5185m	52	55
Potassium	ppm	ASTM D5185m >20	0	<1

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045 0.236	---	0.131
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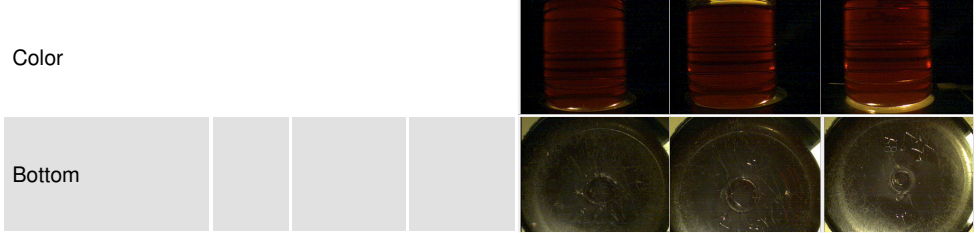
OIL ANALYSIS REPORT



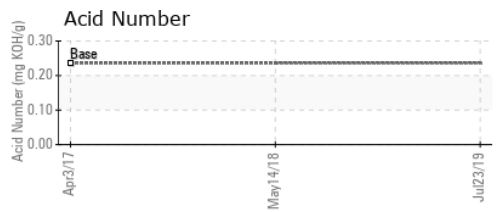
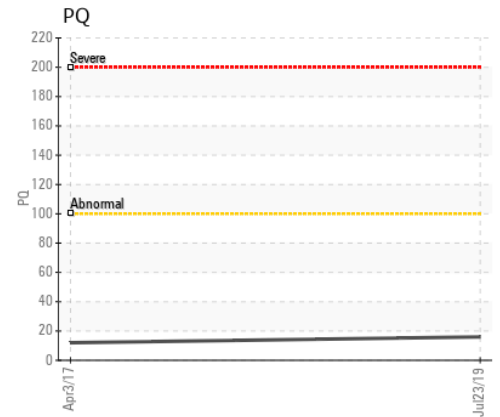
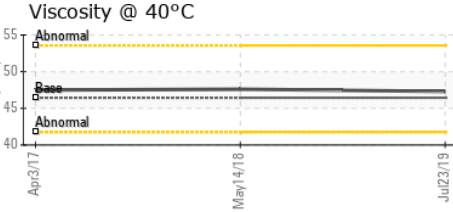
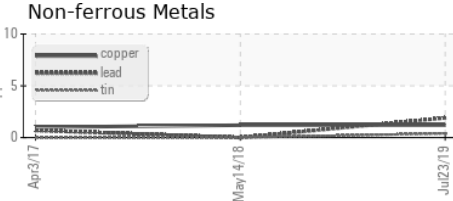
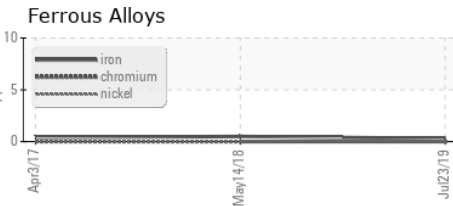
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.44	47.61	47.49
Visc @ 100°C	cSt	ASTM D445	8.15	8.16	8.26
Viscosity Index (VI)	Scale	ASTM D2270	149	145	149

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO5010835 **Received** : 24 Jul 2019
Lab Number : **04761545** **Tested** : 25 Jul 2019
Unique Number : 8674271 **Diagnosed** : 25 Jul 2019 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

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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)