



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
PIERCE DASH VM-41 (S/N 4P1CT02D7RA000192)

Component
TELESQUIRT AERIAL Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 68 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				WCMC154625	---	---
Sample Date				15 Sep 2017	---	---
Machine Age	hrs			359	---	---
Oil Age	hrs			17	---	---
Filter Age	hrs			17	---	---
Oil Changed				Not Changed	---	---
Filter Changed				Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185	>20	1.7	---	---
Chromium	ppm	ASTM D5185	>10	0.1	---	---
Manganese	ppm	ASTM D5185		0.5	---	---
Nickel	ppm	ASTM D5185		0.0	---	---
Titanium	ppm	ASTM D5185		0.0	---	---
Silver	ppm	ASTM D5185		0.0	---	---
Aluminum	ppm	ASTM D5185	>10	0.2	---	---
Lead	ppm	ASTM D5185	>10	0.0	---	---
Copper	ppm	ASTM D5185	>75	4.8	---	---
Tin	ppm	ASTM D5185	>10	0.4	---	---
Vanadium	ppm	ASTM D5185		0.0	---	---
White Metal	scalar	Visual	NONE	LIGHT	---	---
Babbitt	scalar	Visual	NONE	NONE	---	---

CONTAMINATION

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

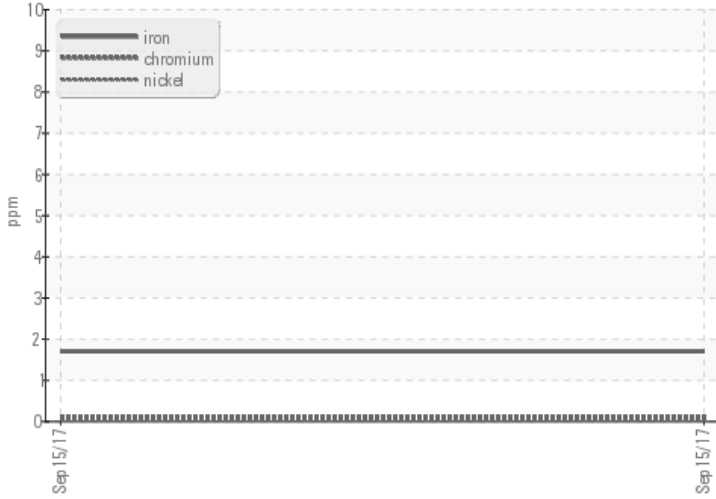
Silicon	ppm	ASTM D5185	>20	▲ 21	---	---
Potassium	ppm	ASTM D5185	>20	0.9	---	---
Particles >4µm		ASTM D7647	>5000	▲ 24094	---	---
Particles >6µm		ASTM D7647	>1300	▲ 6348	---	---
Particles >14µm		ASTM D7647	>160	▲ 565	---	---
Particles >21µm		ASTM D7647	>40	▲ 160	---	---
Particles >38µm		ASTM D7647	>10	▲ 22	---	---
Particles >71µm		ASTM D7647	>3	▲ 11	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/20/16	---	---
Silt	scalar	Visual	NONE	NONE	---	---
Debris	scalar	Visual	NONE	NONE	---	---
Sand/Dirt	scalar	Visual	NONE	NONE	---	---
Appearance	scalar	Visual	NORML	NORML	---	---
Odor	scalar	Visual	NORML	NORML	---	---
Emulsified Water	scalar	Visual	>0.1	NEG	---	---

FLUID CONDITION

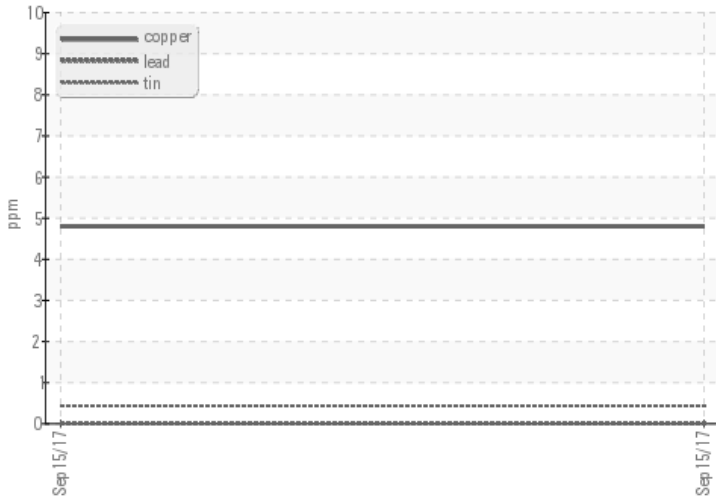
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185		0.5	---	---
Boron	ppm	ASTM D5185	5	0.5	---	---
Barium	ppm	ASTM D5185	5	0.2	---	---
Molybdenum	ppm	ASTM D5185	5	0.6	---	---
Magnesium	ppm	ASTM D5185	25	2.0	---	---
Calcium	ppm	ASTM D5185	200	48	---	---
Phosphorus	ppm	ASTM D5185	300	218	---	---
Zinc	ppm	ASTM D5185	370	275	---	---
Sulfur	ppm	ASTM D5185	2500	1503	---	---
Acid Number (AN)	mg KOH/g	ASTM D974	0.57	0.362	---	---
Visc @ 40°C	cSt	ASTM D445	68	▲ 45.67	---	---

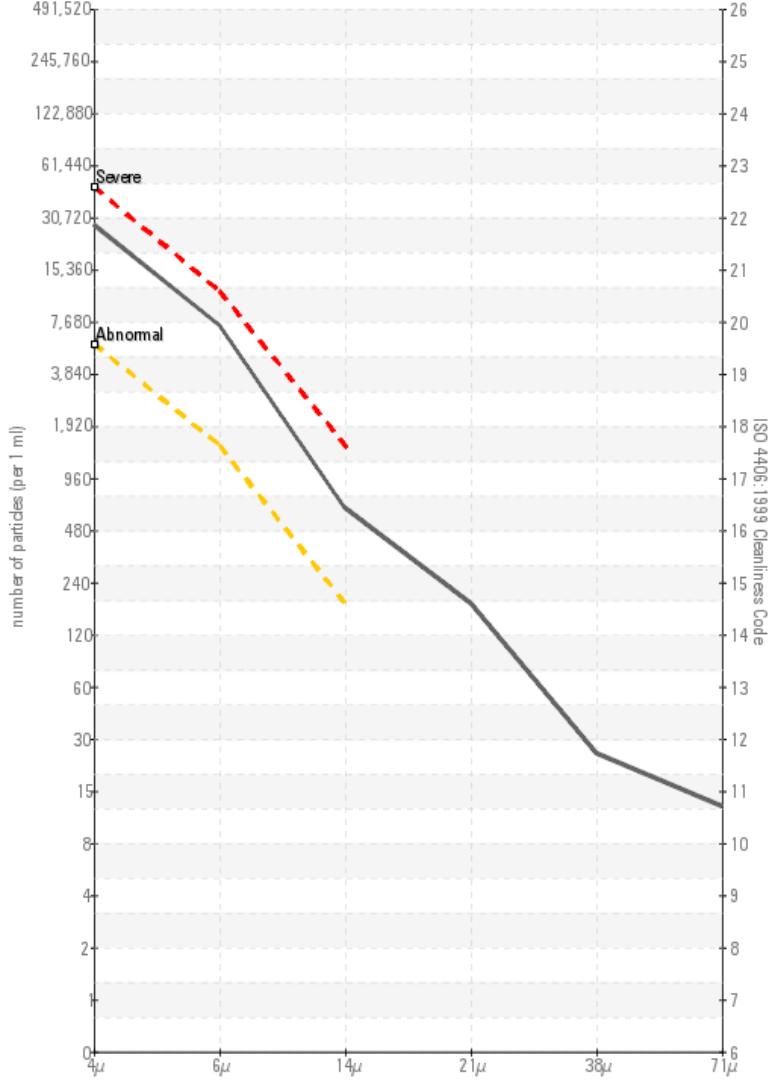
Ferrous Alloys



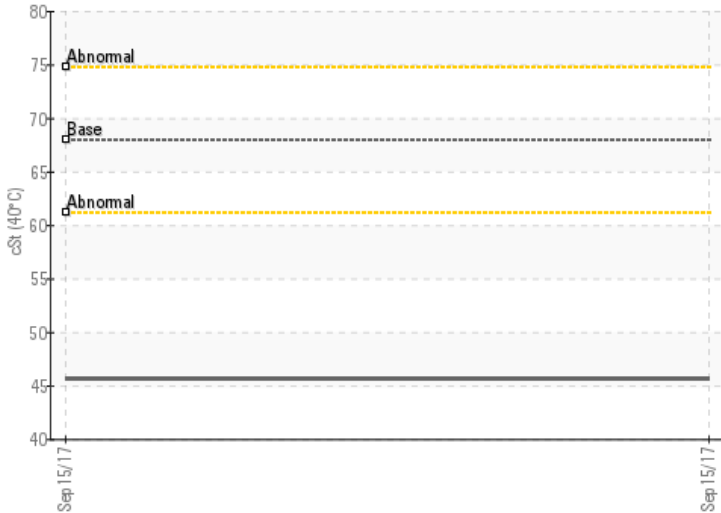
Babbitts



Particle Count



Viscosity @ 40°C



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC1234567 **Received** : 26 Sep 2017
Lab Number : 01234567 **Diagnosed** : 02 Oct 2017
Unique Number : 12345678 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: Tan Man)

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To discuss diagnosis or test data, contact Technical Support at 1-800-237-1369.
 To change component or sample information, contact Customer Service at 1-800-237-1369.