



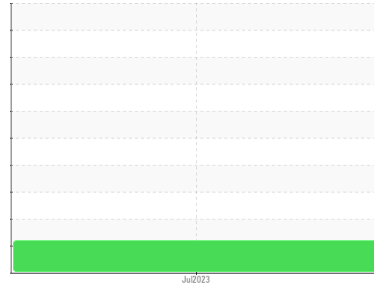
PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

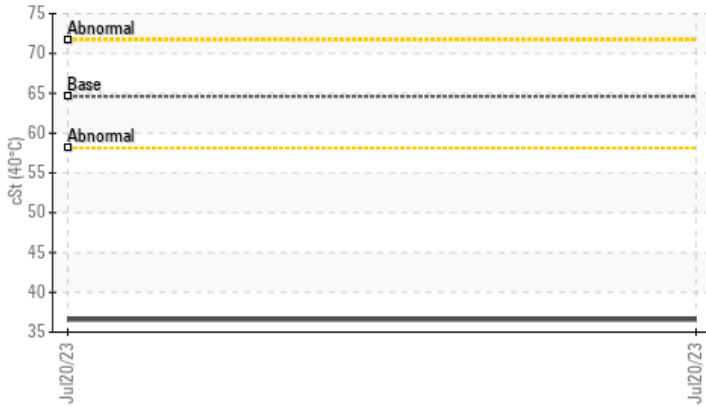


Area
[T-328]
 Machine Id
IMT IMT
 Component
Tank Hydraulic System
 Fluid
CHEVRON HYDRAULIC AW ISO 68 (45 GAL)

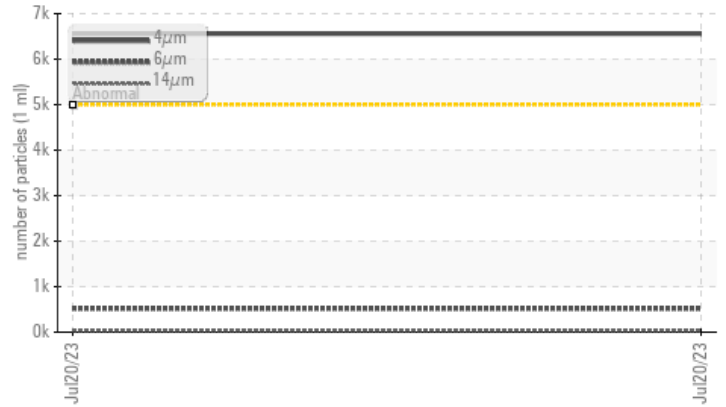


COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status	ATTENTION	---	---
Particles >4µm	ASTM D7647 >5000 ▲ 6557	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14 ▲ 20/16/12	---	---
Visc @ 40°C	cSt ASTM D445 64.6 ▲ 36.6	---	---

Customer Id: PALALT
 Sample No.: WC0780297
 Lab Number: 05936628
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

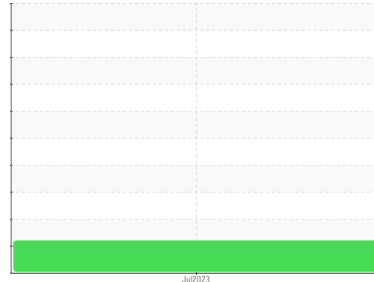
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
[T-328]
 Machine Id
IMT IMT

Component
Tank Hydraulic System
 Fluid

CHEVRON HYDRAULIC AW ISO 68 (45 GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0780297	---	---
Sample Date	Client Info	20 Jul 2023	---	---
Machine Age	hrs Client Info	10023	---	---
Oil Age	hrs Client Info	10023	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >20	11	---	---
Chromium ppm	ASTM D5185m >10	<1	---	---
Nickel ppm	ASTM D5185m >10	0	---	---
Titanium ppm	ASTM D5185m	0	---	---
Silver ppm	ASTM D5185m	<1	---	---
Aluminum ppm	ASTM D5185m >10	<1	---	---
Lead ppm	ASTM D5185m >10	0	---	---
Copper ppm	ASTM D5185m >75	4	---	---
Tin ppm	ASTM D5185m >10	0	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	---	---
Barium ppm	ASTM D5185m	0	---	---
Molybdenum ppm	ASTM D5185m	0	---	---
Manganese ppm	ASTM D5185m	<1	---	---
Magnesium ppm	ASTM D5185m	3	---	---
Calcium ppm	ASTM D5185m	368	---	---
Phosphorus ppm	ASTM D5185m	403	---	---
Zinc ppm	ASTM D5185m	457	---	---
Sulfur ppm	ASTM D5185m	2651	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >20	2	---	---
Sodium ppm	ASTM D5185m	2	---	---
Potassium ppm	ASTM D5185m >20	<1	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 6557	---	---
Particles >6µm	ASTM D7647 >1300	520	---	---
Particles >14µm	ASTM D7647 >160	38	---	---
Particles >21µm	ASTM D7647 >40	12	---	---
Particles >38µm	ASTM D7647 >10	1	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 20/16/12	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.57	---	---

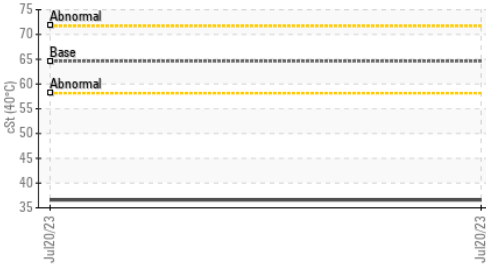


OIL ANALYSIS REPORT

▲ Particle Trend



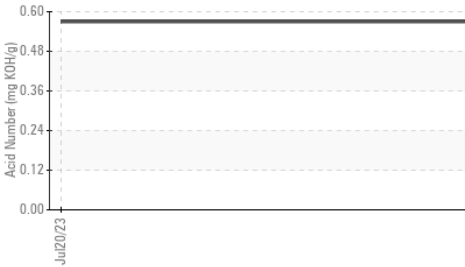
▲ Viscosity @ 40°C



▲ Particle Trend



Acid Number



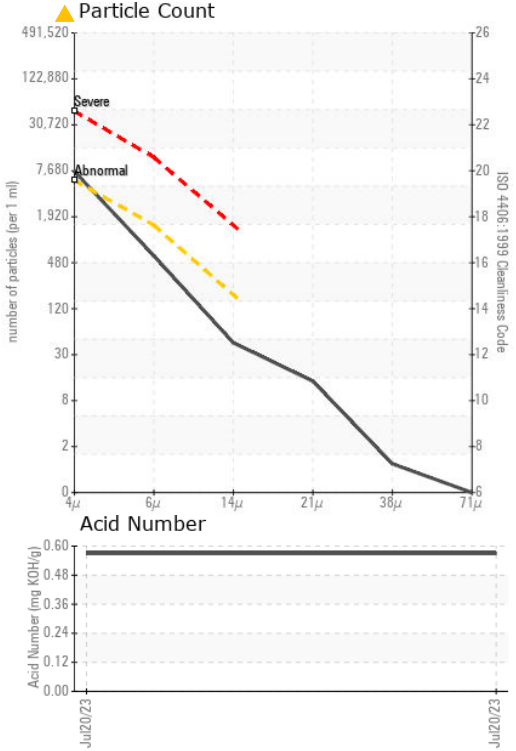
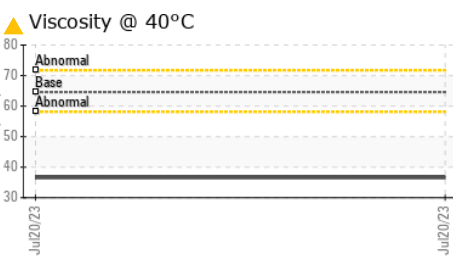
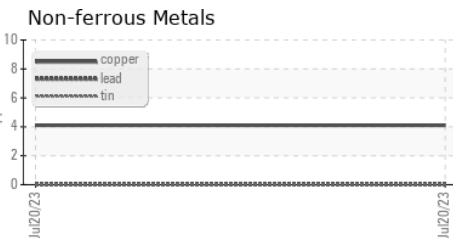
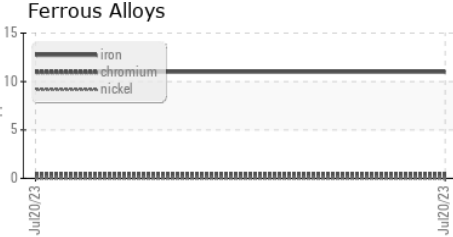
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	64.6 ▲ 36.6	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color		no image	no image
Bottom		no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0780297 **Received** : 28 Aug 2023
Lab Number : 05936628 **Diagnosed** : 29 Aug 2023
Unique Number : 10621899 **Diagnostician** : Don Baldrige
Test Package : CONST

PALFINGER USA LLC
 19585 NW ZACK SEGERS LN
 ALTHA, FL
 US 32421
 Contact: CHUCK GOAD
 ch.goad@palfinger.com
 T: (850)771-5638
 F:

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)