



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**EAGLEFORD DILLEY AMINE**  
 Machine Id  
**WHEATLEY P-803B**  
 Component  
**Pump**  
 Fluid  
**SUMMIT MULTIPLEX 320 (5 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO204799673</b>	TO204776958	TO204667458
Sample Date		Client Info		<b>09 Sep 2019</b>	09 Aug 2019	04 Mar 2019
Machine Age	hrs	Client Info		<b>0</b>	0	22690
Oil Age	hrs	Client Info		<b>0</b>	0	1000
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184		<b>34</b>	23	---
Iron	ppm	ASTM D5185m	>90	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185m		<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>12	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>30	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>9	<b>0</b>	0	0
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**

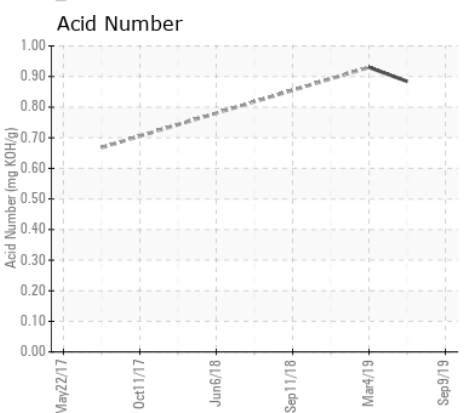
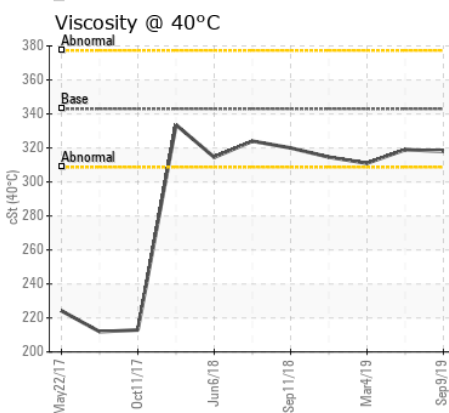
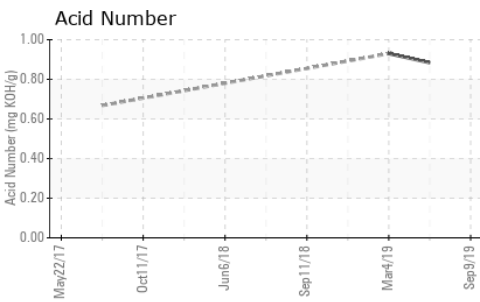
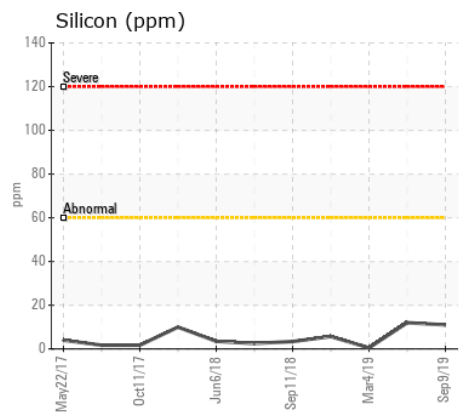
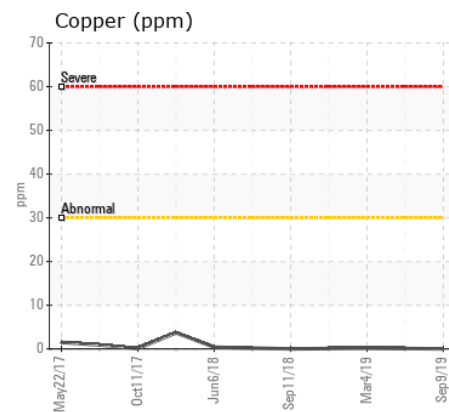
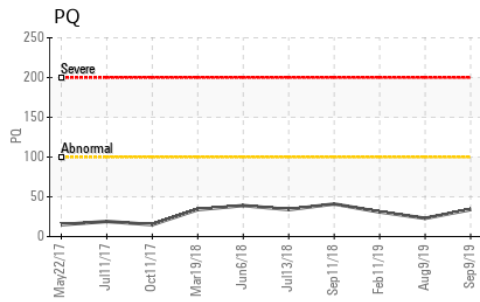
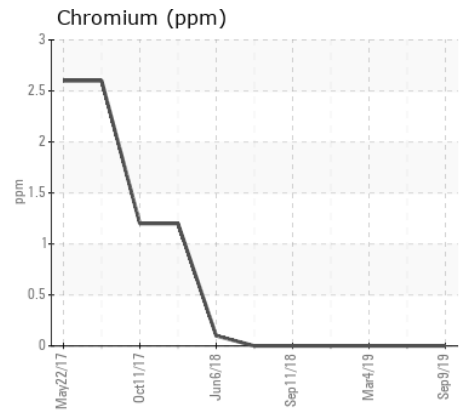
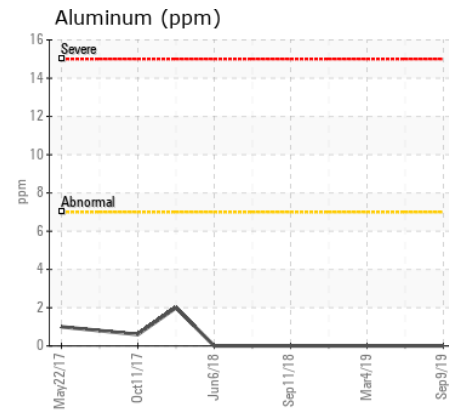
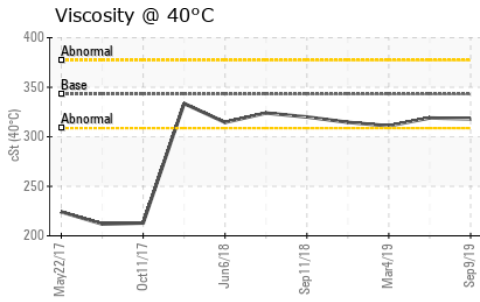
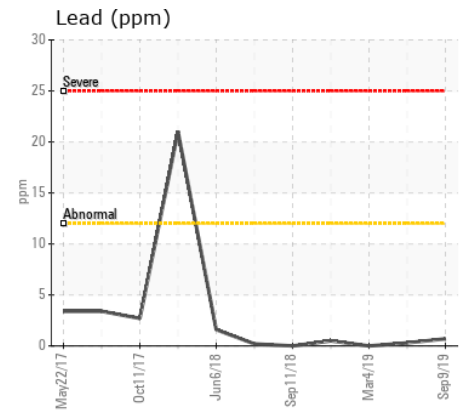
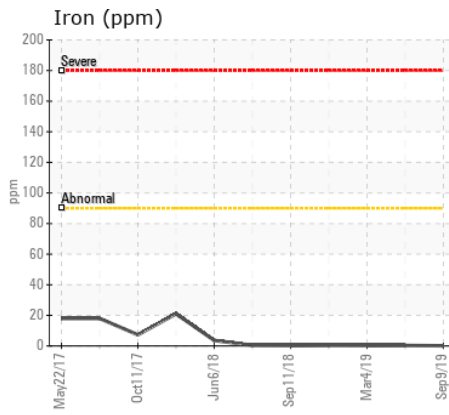
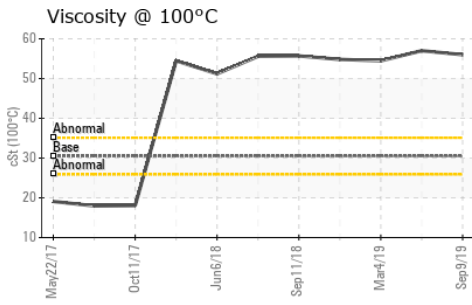
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>60	<b>11</b>	12	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Water		WC Method		<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	VLITE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	7
Boron	ppm	ASTM D5185m		<b>2</b>	4	3
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	0
Calcium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Phosphorus	ppm	ASTM D5185m		<b>600</b>	654	866
Zinc	ppm	ASTM D5185m		<b>4</b>	4	11
Sulfur	ppm	ASTM D5185m		<b>552</b>	679	923
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>---</b>	0.884	0.930
Visc @ 40°C	cSt	ASTM D445	343	<b>318</b>	319	311.0
Visc @ 100°C	cSt	ASTM D445	30.5	<b>56.0</b>	57.0	54.47
Viscosity Index (VI)	Scale	ASTM D2270	123	<b>244</b>	247	242



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO204799673 **Received** : 16 Sep 2019  
**Lab Number** : 04799673 **Tested** : 18 Sep 2019  
**Unique Number** : 8739539 **Diagnosed** : 18 Sep 2019 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, VI )

**WILLIAMS ENERGY**  
 9013 CHESAPEAKE WAY  
 PEARSALL, TX  
 US 78061  
 Contact: BILLY HARRISON  
 billy.harrison@williams.com

Certificate L2367  
 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)