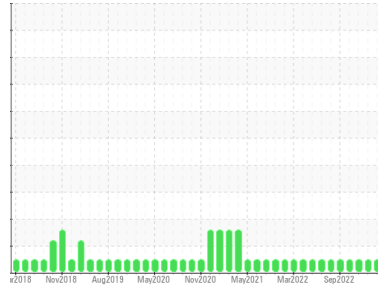


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**EAGLEFORD DILLEY AMINE**  
 Machine Id  
**9100 (S/N C40143)**  
 Component  
**Reciprocating Compressor**  
 Fluid  
**TULCO LUBSOIL DGP 150 (20 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 component. The amount and size of particulates present in the system is acceptable.

**Fluid Condition**  
 The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>TO50000564</b>	TO50000567	TO50000568
Sample Date	Client Info			<b>25 Jan 2023</b>	08 Dec 2022	22 Nov 2022
Machine Age	hrs Client Info			<b>43478</b>	42783	42783
Oil Age	hrs Client Info			<b>0</b>	0	0
Oil Changed	Client Info			<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	<1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

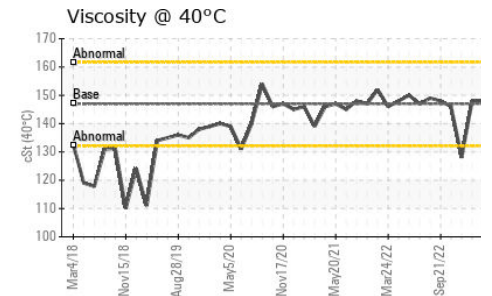
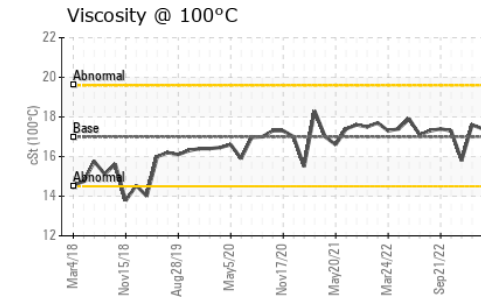
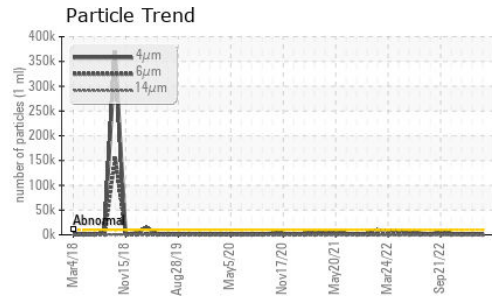
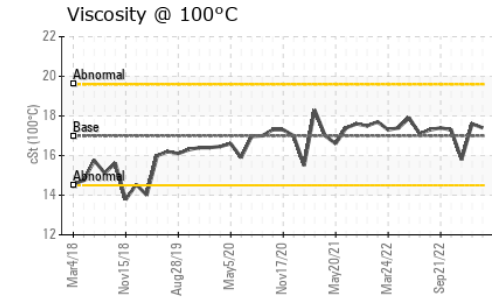
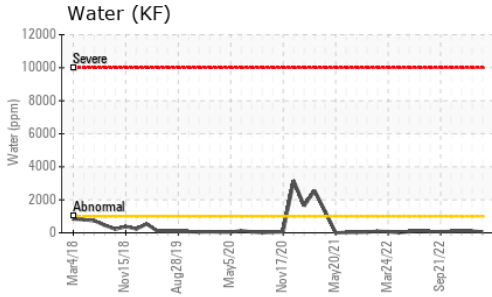
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Calcium	ppm	ASTM D5185m		<b>1</b>	0	3
Phosphorus	ppm	ASTM D5185m	92	<b>80</b>	77	110
Zinc	ppm	ASTM D5185m		<b>5</b>	4	21
Sulfur	ppm	ASTM D5185m	1600	<b>1167</b>	1139	916

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Water	%	ASTM D6304	>0.1	<b>0.005</b>	0.010	0.010
ppm Water	ppm	ASTM D6304	>1000	<b>54.1</b>	100.4	100.1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>1560</b>	1616	1422
Particles >6µm		ASTM D7647	>2500	<b>254</b>	222	139
Particles >14µm		ASTM D7647	>320	<b>9</b>	14	7
Particles >21µm		ASTM D7647	>80	<b>2</b>	4	2
Particles >38µm		ASTM D7647	>20	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>18/15/10</b>	18/15/11	18/14/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.353	<b>0.06</b>	0.046	0.062

# OIL ANALYSIS REPORT



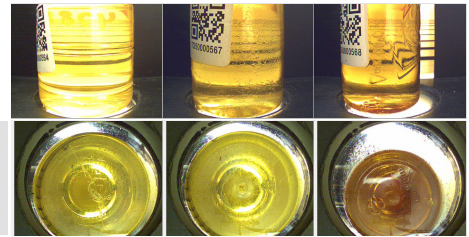
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	147	148	128
Visc @ 100°C	cSt	ASTM D445	17	17.6	15.8
Viscosity Index (VI)	Scale	ASTM D2270	125	130	130

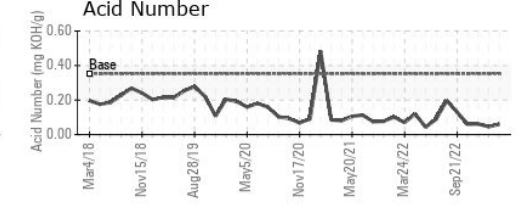
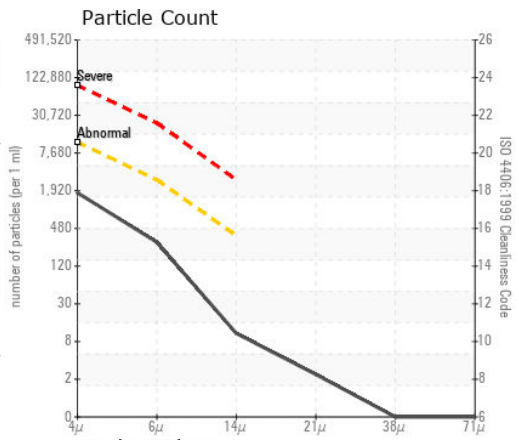
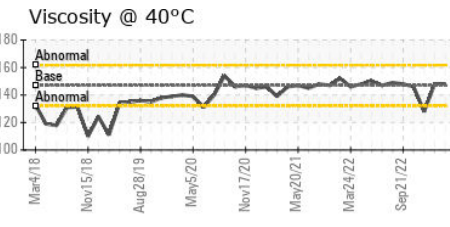
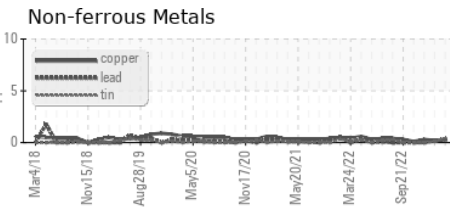
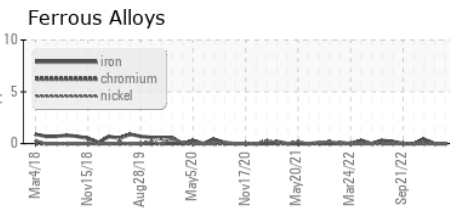
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50000564  
**Lab Number** : 05760600  
**Unique Number** : 10325207  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**Received** : 07 Feb 2023  
**Tested** : 08 Feb 2023  
**Diagnosed** : 08 Feb 2023 - Doug Bogart

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

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)

T:  
F: