



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**MRC-319**  
 Component  
**Compressor**  
 Fluid  
**TULCO LUBSOIL LPG WS 150 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO60002321</b>	TO60002141	TO60002147
Sample Date		Client Info		<b>01 Apr 2024</b>	01 Mar 2024	05 Feb 2024
Machine Age	hrs	Client Info		<b>5296</b>	4662	4662
Oil Age	hrs	Client Info		<b>0</b>	0	0
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	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

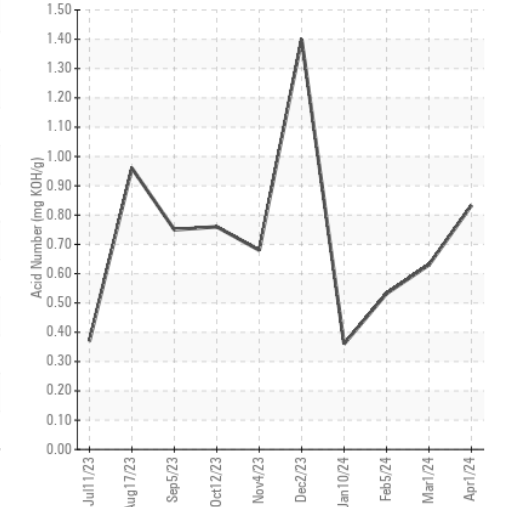
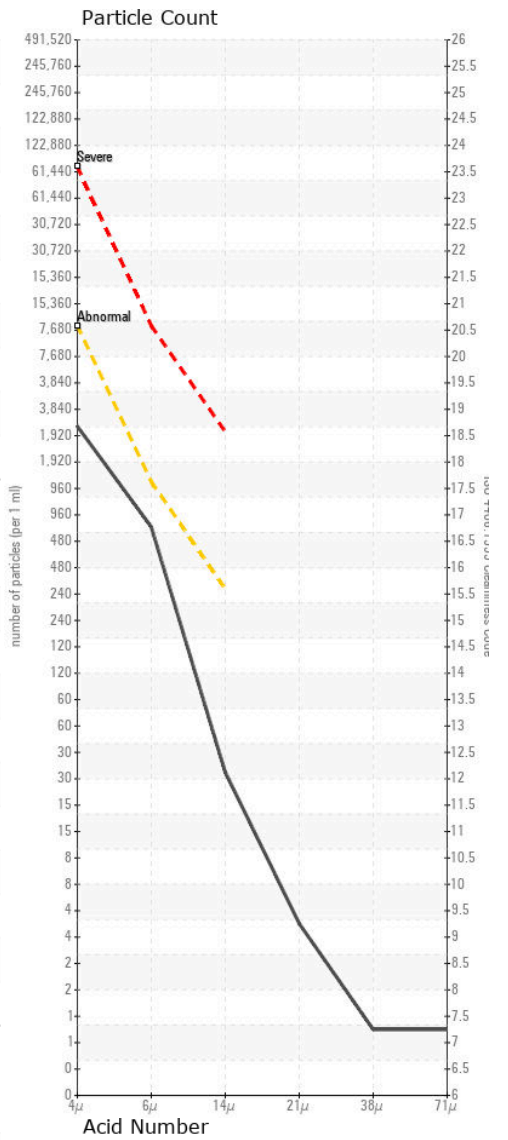
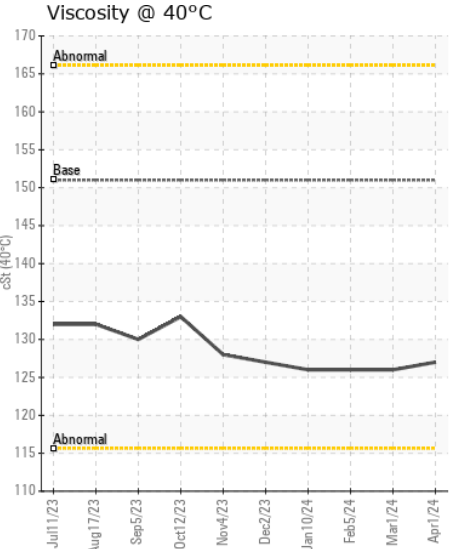
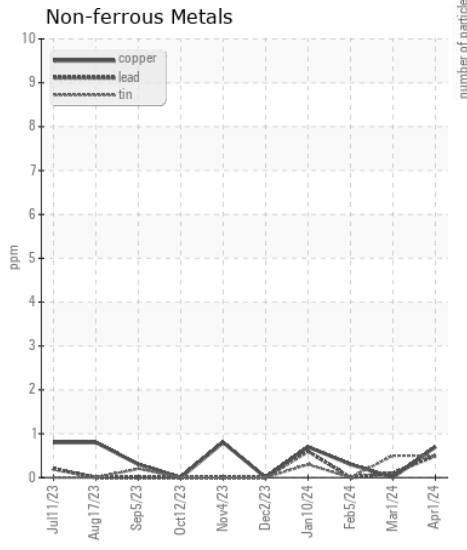
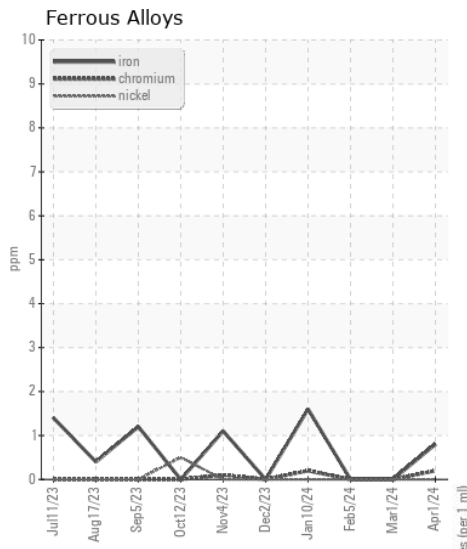
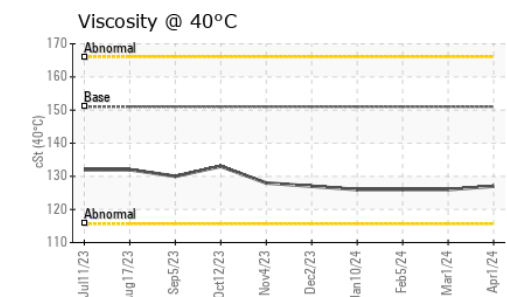
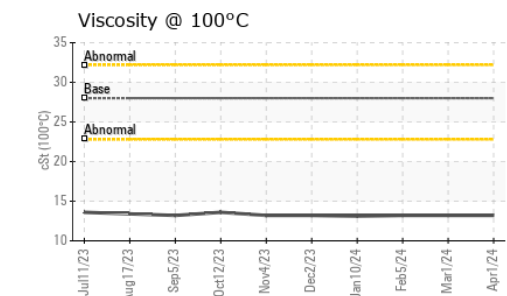
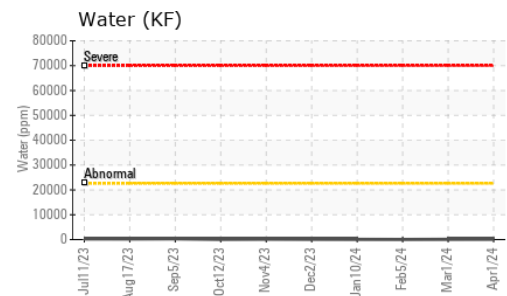
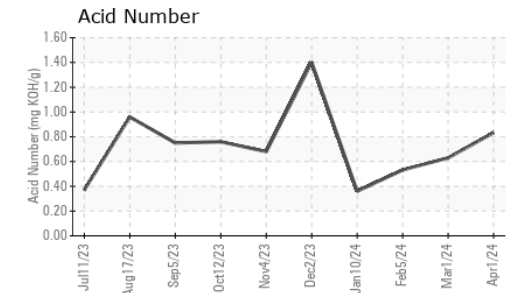
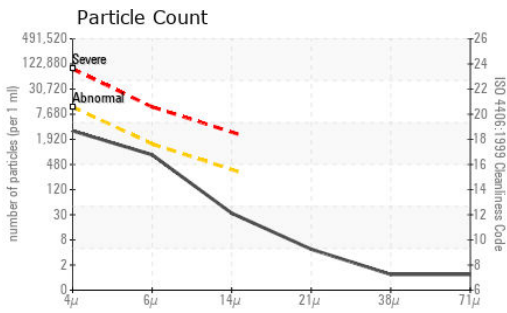
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	8	4
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	0
Water	%	ASTM D6304	>2.26	<b>0.008</b>	0.006	0.00
ppm Water	ppm	ASTM D6304	>22600	<b>89</b>	63	0
Particles >4µm		ASTM D7647	>10000	<b>2681</b>	4781	1764
Particles >6µm		ASTM D7647	>1300	<b>718</b>	1049	192
Particles >14µm		ASTM D7647	>320	<b>29</b>	47	6
Particles >21µm		ASTM D7647	>80	<b>4</b>	10	2
Particles >38µm		ASTM D7647	>20	<b>1</b>	0	0
Particles >71µm		ASTM D7647	>4	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	<b>19/17/12</b>	19/17/13	18/15/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	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	>2.26	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>4</b>	2	2
Boron	ppm	ASTM D5185m	0	<b>68</b>	97	101
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>6</b>	7	7
Calcium	ppm	ASTM D5185m	0	<b>1239</b>	1222	1189
Phosphorus	ppm	ASTM D5185m	0	<b>296</b>	258	275
Zinc	ppm	ASTM D5185m	0	<b>308</b>	296	298
Sulfur	ppm	ASTM D5185m	0	<b>3957</b>	3916	3353
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.833</b>	0.63	0.532
Visc @ 40°C	cSt	ASTM D445	151	<b>127</b>	126	126
Visc @ 100°C	cSt	ASTM D445	28	<b>13.2</b>	13.2	13.2
Viscosity Index (VI)	Scale	ASTM D2270	224	<b>97</b>	98	98



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002321 **Received** : 19 Apr 2024  
**Lab Number** : 06154467 **Tested** : 22 Apr 2024  
**Unique Number** : 10989890 **Diagnosed** : 23 Apr 2024 - Angela Borella  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**MIDLAND - EOG RESOURCES INC.**  
 5509 CHAMPIONS DRIVE  
 MIDLAND, TX  
 US 79706  
 Contact: HERMAN GARZA  
 herman\_garza@eogresources.com  
 T: (432)686-3600  
 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)