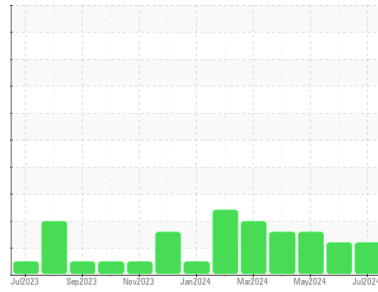


# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**MRC-293**

Component  
**Compressor**

Fluid  
**TULCO LUBSOIL LPG WS 150 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### 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>TO60002945</b>	TO60002718	TO60002548
Sample Date	Client Info		<b>10 Jul 2024</b>	31 May 2024	01 May 2024
Machine Age	hrs	Client Info	<b>8704</b>	8042	7631
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>2</b>	<1	2
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	3	1
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>6</b>	0	<1
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>16</b>	28	34
Barium	ppm	ASTM D5185m 0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	0
Magnesium	ppm	ASTM D5185m 0	<b>8</b>	7	6
Calcium	ppm	ASTM D5185m 0	<b>1271</b>	1317	1238
Phosphorus	ppm	ASTM D5185m 0	<b>311</b>	308	322
Zinc	ppm	ASTM D5185m 0	<b>329</b>	347	331
Sulfur	ppm	ASTM D5185m 0	<b>3837</b>	4036	3488

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>9</b>	10	4
Sodium	ppm	ASTM D5185m	<b>11</b>	10	6
Potassium	ppm	ASTM D5185m >20	<b>5</b>	5	4
Water	%	ASTM D6304 >2.26	<b>0.109</b>	0.075	0.156
ppm Water	ppm	ASTM D6304 >22600	<b>1090</b>	750	1560

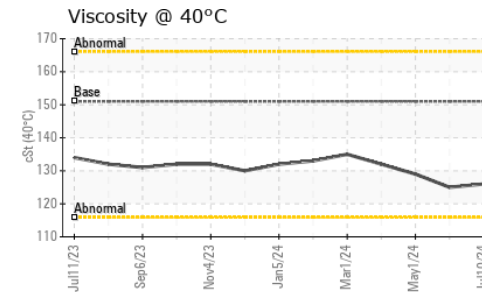
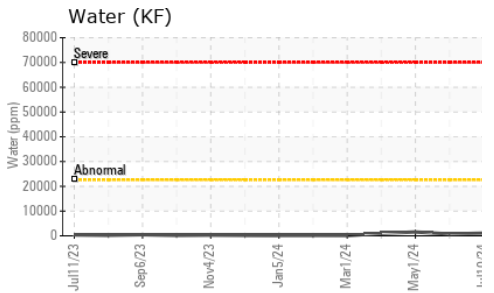
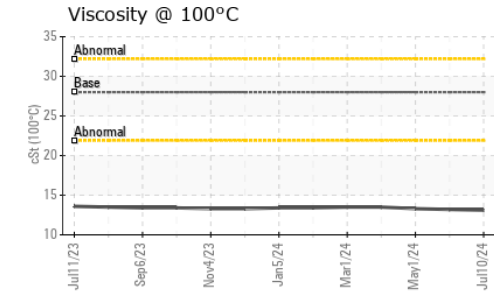
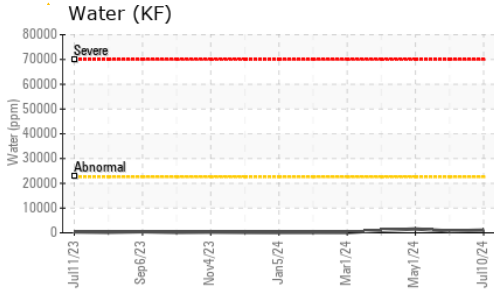
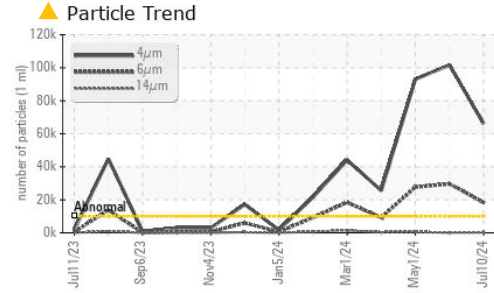
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 66003</b>	▲ 101649	▲ 93051
Particles >6µm	ASTM D7647	>1300	<b>▲ 18349</b>	▲ 29646	▲ 27595
Particles >14µm	ASTM D7647	>320	<b>124</b>	99	● 572
Particles >21µm	ASTM D7647	>80	<b>8</b>	10	68
Particles >38µm	ASTM D7647	>20	<b>0</b>	2	3
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>20/17/15	<b>▲ 23/21/14</b>	▲ 24/22/14	▲ 24/22/16

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.858</b>	0.835	0.16

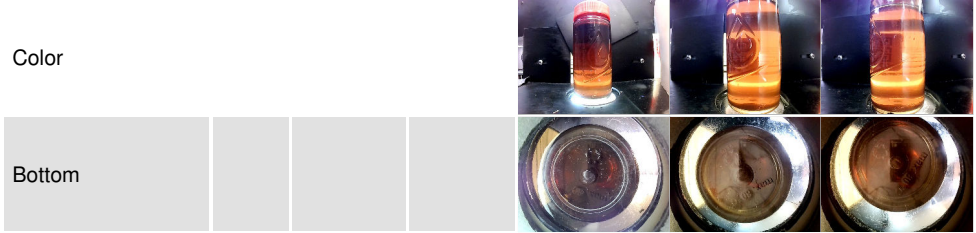
# OIL ANALYSIS REPORT



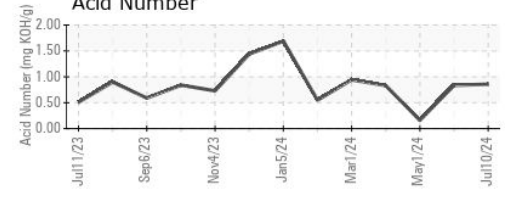
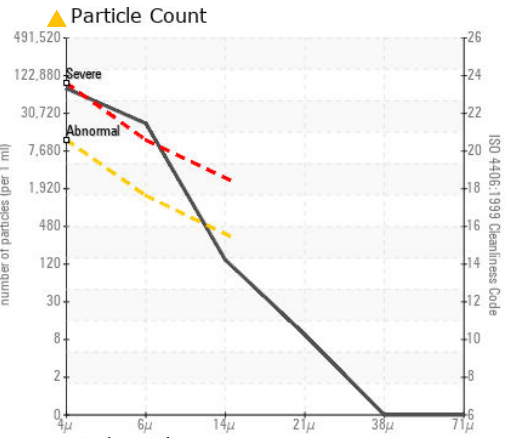
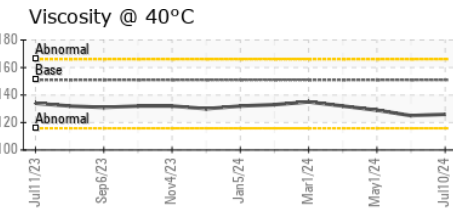
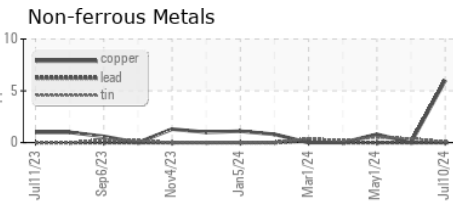
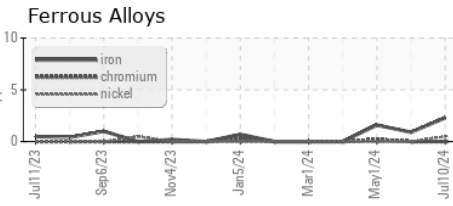
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	126	125
Visc @ 100°C	cSt	ASTM D445	28	13.1	13.2
Viscosity Index (VI)	Scale	ASTM D2270	224	97	99

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002945 **Received** : 16 Jul 2024  
**Lab Number** : 06238465 **Tested** : 18 Jul 2024  
**Unique Number** : 11127299 **Diagnosed** : 18 Jul 2024 - Doug Bogart  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**EOG RESOURCES INC. - MIDLAND**  
 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)