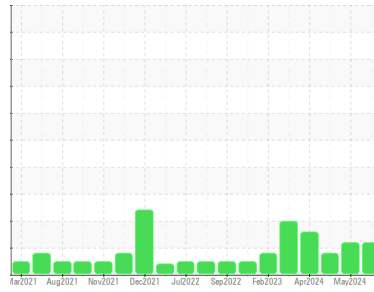


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**GATHERING STATIONS/BOA GATHERING STATION [25637]**  
 Machine Id  
**MRC-205 - BOA 4 (S/N F62004)**  
 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>TO60002715</b>	TO60002558	TO60002582
Sample Date	Client Info			<b>02 Jul 2024</b>	30 May 2024	08 May 2024
Machine Age	hrs	Client Info		<b>25637</b>	24848	24422
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Not Chngd</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>	7	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	2
Lead	ppm	ASTM D5185m	>25	<b>2</b>	18	4
Copper	ppm	ASTM D5185m	>50	<b>40</b>	4	▲ 49
Tin	ppm	ASTM D5185m	>15	<b>2</b>	<1	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</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>33</b>	69	50
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	2
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	0
Magnesium	ppm	ASTM D5185m	0	<b>11</b>	12	8
Calcium	ppm	ASTM D5185m	0	<b>1336</b>	1507	1356
Phosphorus	ppm	ASTM D5185m	0	<b>303</b>	297	320
Zinc	ppm	ASTM D5185m	0	<b>358</b>	400	362
Sulfur	ppm	ASTM D5185m	0	<b>3484</b>	3153	2955

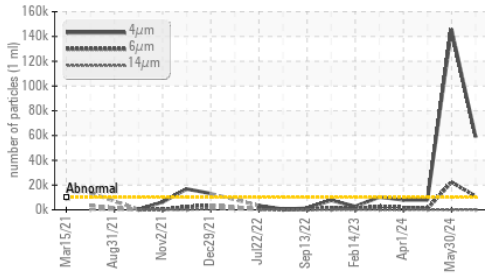
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	2	3
Sodium	ppm	ASTM D5185m		<b>6</b>	6	2
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	2
Water	%	ASTM D6304	>2.26	<b>0.117</b>	0.069	0.081
ppm Water	ppm	ASTM D6304	>22600	<b>1170</b>	690	810

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ <b>58785</b>	▲ 145957	7936
Particles >6µm		ASTM D7647	>1300	▲ <b>10933</b>	▲ 22425	994
Particles >14µm		ASTM D7647	>320	<b>79</b>	48	24
Particles >21µm		ASTM D7647	>80	<b>10</b>	3	4
Particles >38µm		ASTM D7647	>20	<b>1</b>	0	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ <b>23/21/13</b>	▲ 24/22/13	20/17/12

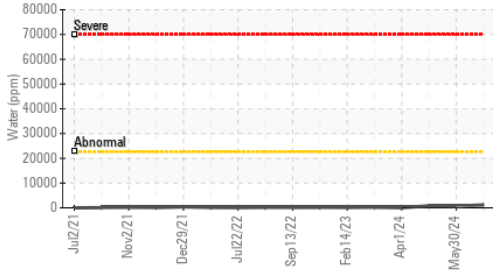
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.658</b>	2.11	0.736

# OIL ANALYSIS REPORT

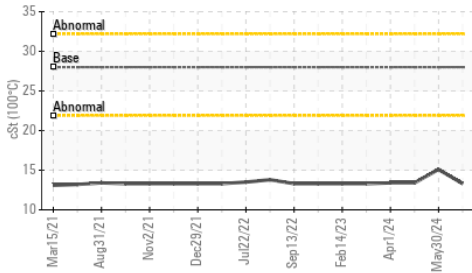
## ▲ Particle Trend



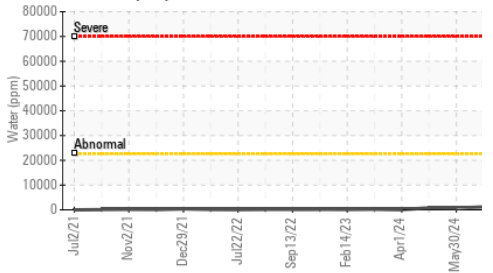
## Water (KF)



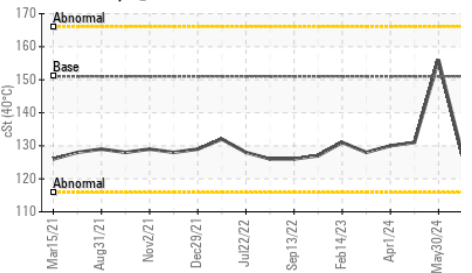
## Viscosity @ 100°C



## Water (KF)



## Viscosity @ 40°C



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

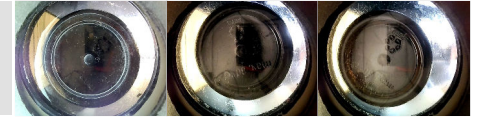
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	156	131
Visc @ 100°C	cSt	ASTM D445	28	15.1	13.4
Viscosity Index (VI)	Scale	ASTM D2270	224	96	96

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

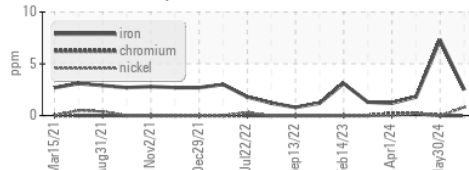


Bottom

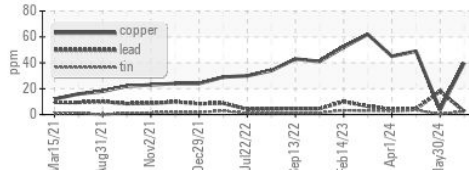


## GRAPHS

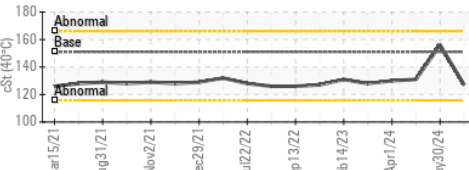
### Ferrous Alloys



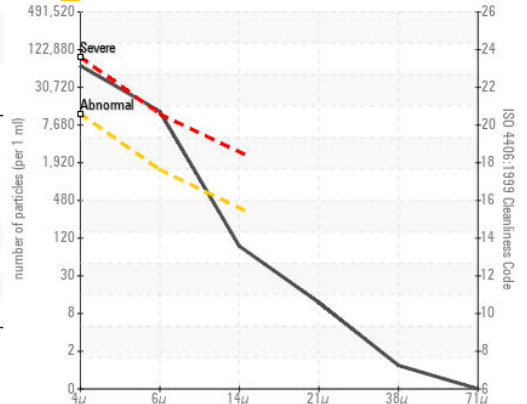
### Non-ferrous Metals



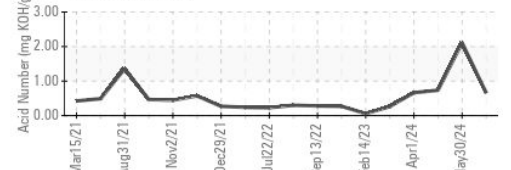
### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : TO60002715

**Lab Number** : 06238456

**Unique Number** : 11127290

**Test Package** : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI )

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)

**Received** : 16 Jul 2024

**Tested** : 18 Jul 2024

**Diagnosed** : 18 Jul 2024 - Doug Bogart

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US 79706

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