

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**3518**  
Component  
**Gearbox**  
Fluid  
**TULCO LUBSOIL 4220 SYN GEAR 220 (150 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 oil.

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

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>TO50002384</b>	---	---
Sample Date	Client Info	<b>23 May 2024</b>	---	---
Machine Age	hrs Client Info	<b>7404</b>	---	---
Oil Age	hrs Client Info	<b>7404</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

**CONTAMINATION** method limit/base current history1 history2

Water	WC Method	>0.2	<b>NEG</b>	---	---
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**WEAR METALS** method limit/base current history1 history2

PQ	ASTM D8184		<b>15</b>	---	---
Iron	ppm ASTM D5185m	>200	<b>19</b>	---	---
Chromium	ppm ASTM D5185m	>15	<b>0</b>	---	---
Nickel	ppm ASTM D5185m	>15	<b>0</b>	---	---
Titanium	ppm ASTM D5185m		<b>0</b>	---	---
Silver	ppm ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>25	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m	>100	<b>6</b>	---	---
Copper	ppm ASTM D5185m	>200	<b>9</b>	---	---
Tin	ppm ASTM D5185m	>25	<b>&lt;1</b>	---	---
Vanadium	ppm ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm ASTM D5185m		<b>0</b>	---	---

**ADDITIVES** method limit/base current history1 history2

Boron	ppm ASTM D5185m		<b>4</b>	---	---
Barium	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>0</b>	---	---
Manganese	ppm ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Calcium	ppm ASTM D5185m		<b>6</b>	---	---
Phosphorus	ppm ASTM D5185m	230	<b>434</b>	---	---
Zinc	ppm ASTM D5185m		<b>17</b>	---	---
Sulfur	ppm ASTM D5185m	2530	<b>20146</b>	---	---

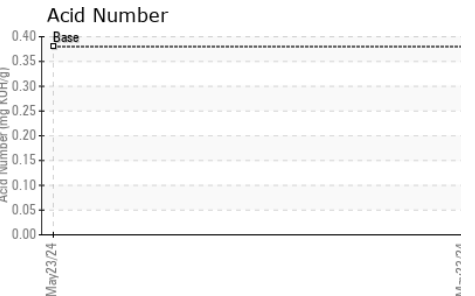
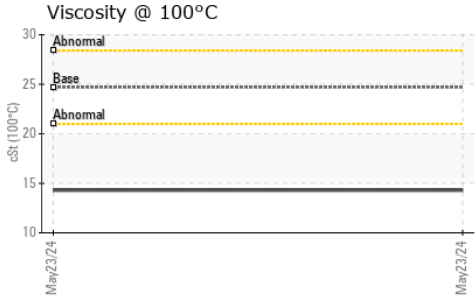
**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm ASTM D5185m	>50	<b>5</b>	---	---
Sodium	ppm ASTM D5185m		<b>10</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---

**VISUAL** method limit/base current history1 history2

White Metal	scalar *Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar *Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar *Visual	NONE	<b>NONE</b>	---	---
Silt	scalar *Visual	NONE	<b>NONE</b>	---	---
Debris	scalar *Visual	NONE	<b>LIGHT</b>	---	---
Sand/Dirt	scalar *Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar *Visual	NORML	<b>NORML</b>	---	---
Odor	scalar *Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar *Visual	>0.2	<b>NEG</b>	---	---
Free Water	scalar *Visual		<b>NEG</b>	---	---

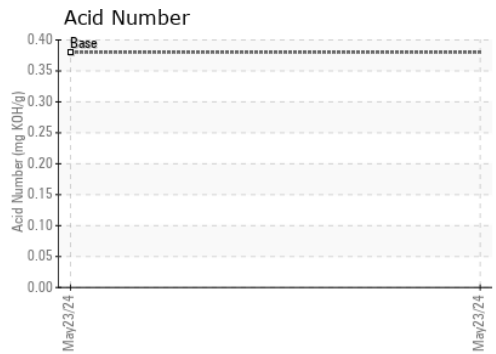
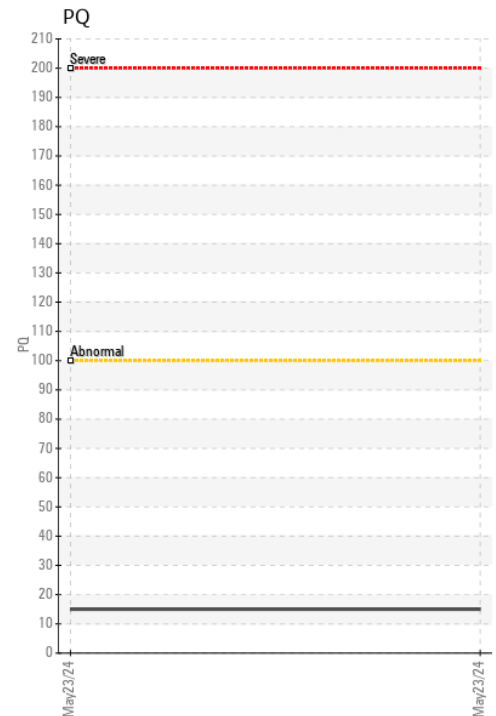
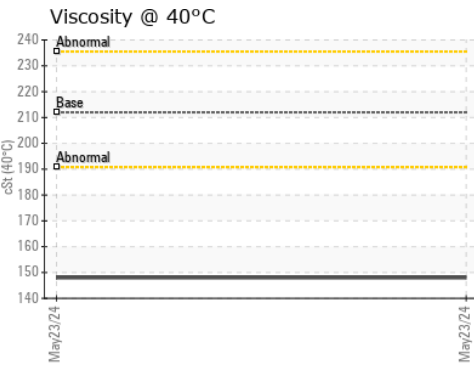
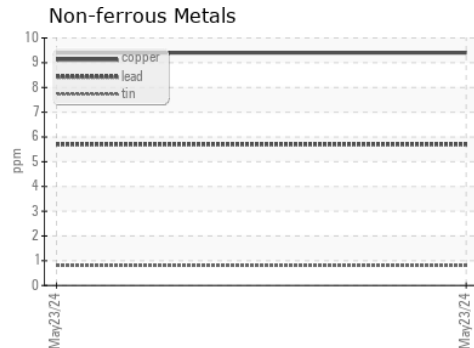
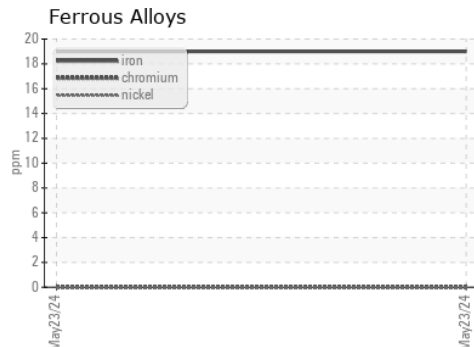
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	212	<b>148</b>	---	---
Visc @ 100°C	cSt	ASTM D445	24.7	<b>14.3</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270	146	<b>93</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50002384      **Received** : 11 Jun 2024  
**Lab Number** : **06207201**      **Tested** : 14 Jun 2024  
**Unique Number** : 11074662      **Diagnosed** : 14 Jun 2024 - Sean Felton  
**Test Package** : IND 2 ( Additional Tests: KV100, PQ, 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)

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