



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**AGCO 765 MT 170**  
 Component  
**Diesel Engine**  
 Fluid  
**TRC MOLY XL PRO-SPEC IV XP 15W40 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR06148180</b>	TR05232175	TR04816057
Sample Date		Client Info		<b>27 Mar 2024</b>	08 Jan 2021	06 Oct 2019
Machine Age	hrs	Client Info		<b>3380</b>	1840	1125
Oil Age	hrs	Client Info		<b>781</b>	519	0
Filter Age	hrs	Client Info		<b>0</b>	519	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	ATTENTION	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>48</b>	32	24
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>6</b>	3	4
Lead	ppm	ASTM D5185m	>40	<b>35</b>	39	▲ 210
Copper	ppm	ASTM D5185m	>330	<b>7</b>	13	6
Tin	ppm	ASTM D5185m	>15	<b>2</b>	2	3
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

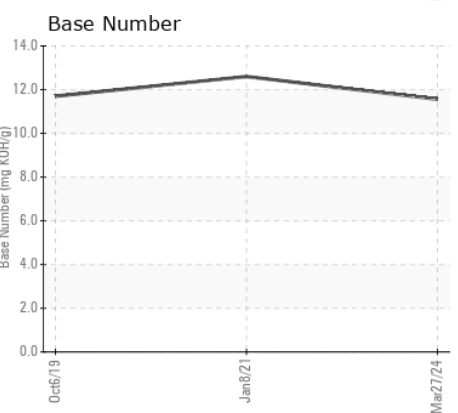
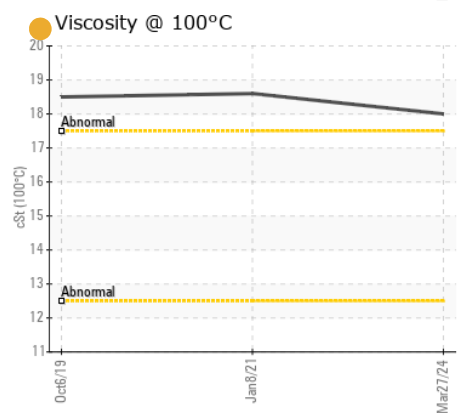
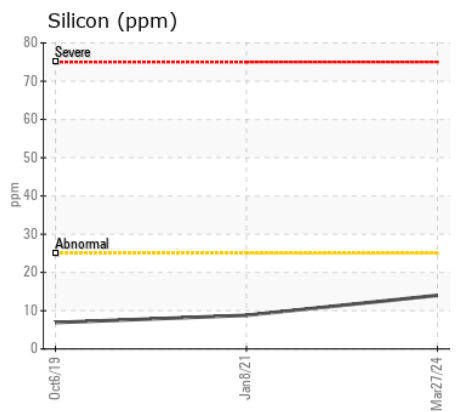
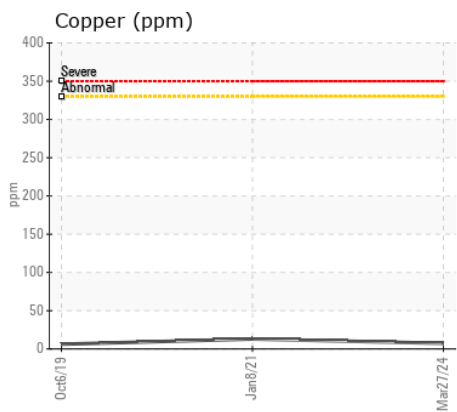
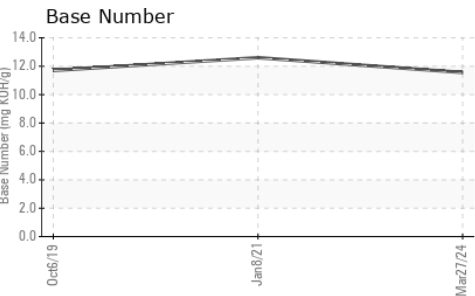
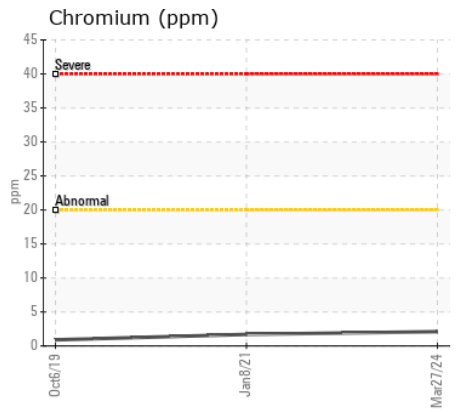
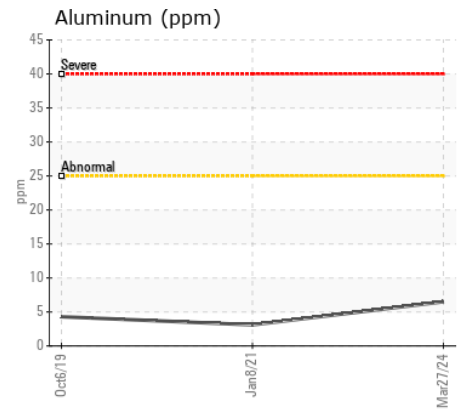
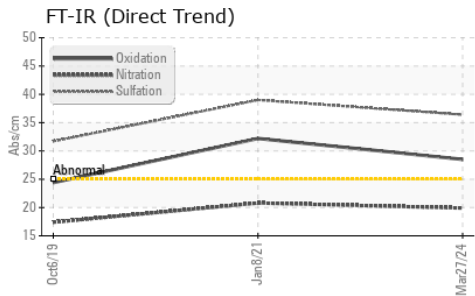
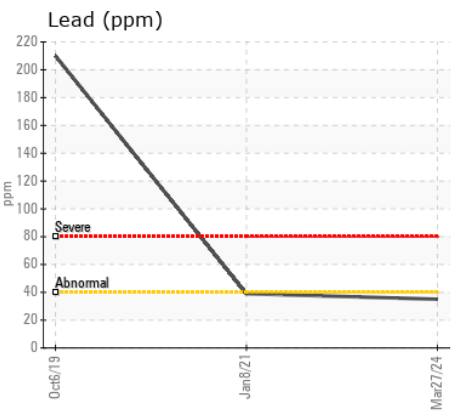
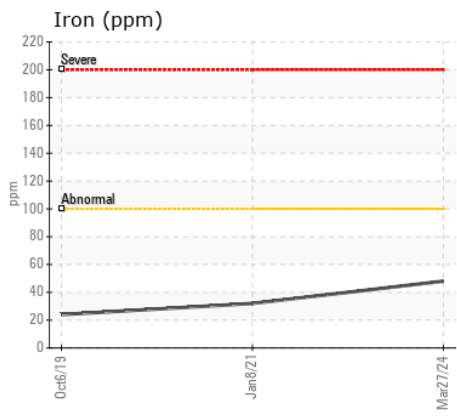
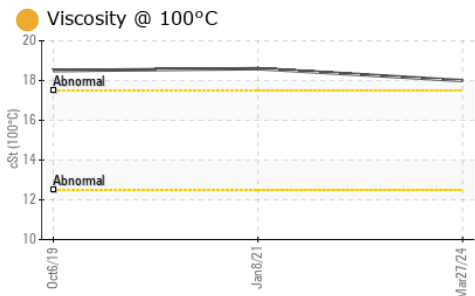
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>14</b>	9	7
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	3	4
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>19.9</b>	20.8	17.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>36.4</b>	39	31.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</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	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		<b>7</b>	3	5
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	3	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>197</b>	171	170
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>59</b>	29	58
Calcium	ppm	ASTM D5185m		<b>6540</b>	5967	5060
Phosphorus	ppm	ASTM D5185m		<b>1382</b>	1189	1023
Zinc	ppm	ASTM D5185m		<b>1563</b>	1430	1295
Sulfur	ppm	ASTM D5185m		<b>6171</b>	4430	2382
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>28.5</b>	32.2	24.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>11.56</b>	12.6	11.7
Visc @ 100°C	cSt	ASTM D445		<b>18.0</b>	18.6	18.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06148180  
**Lab Number** : 06148180  
**Unique Number** : 10978258  
**Test Package** : MOB 2  
**Received** : 12 Apr 2024  
**Tested** : 15 Apr 2024  
**Diagnosed** : 16 Apr 2024 - Sean Felton

**PATANE FARMS FIELD SERVICE LLC**  
 1152 DEWSNUP AVE  
 GRIDLEY, CA  
 US 95948  
 Contact: RANDY JONES

To discuss this sample report, contact Customer Service at 1-800-827-0711.  
 \* - 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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F: