



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**TEREX PINLAY J1170**

Component  
**Diesel Engine**

Fluid  
**TRC MOLY XL PROSPEC III 15W40 (11 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR06121759</b>	TR05645622	TR05540478
Sample Date		Client Info		<b>12 Mar 2024</b>	10 Sep 2022	30 Apr 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>522</b>	535	264
Filter Age	hrs	Client Info		<b>522</b>	535	264
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>47</b>	8	7
Chromium	ppm	ASTM D5185m	>20	<b>8</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	4	3
Lead	ppm	ASTM D5185m	>40	<b>7</b>	1	1
Copper	ppm	ASTM D5185m	>330	<b>13</b>	2	1
Tin	ppm	ASTM D5185m	>15	<b>2</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

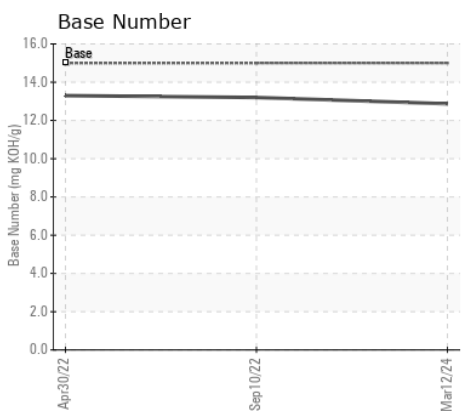
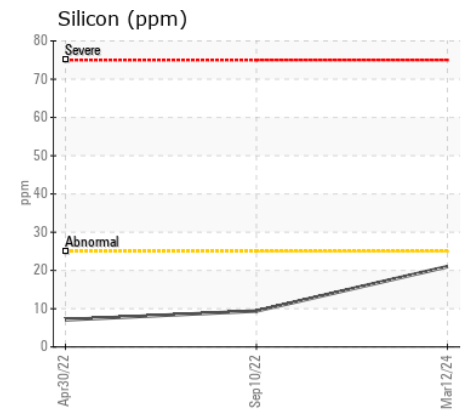
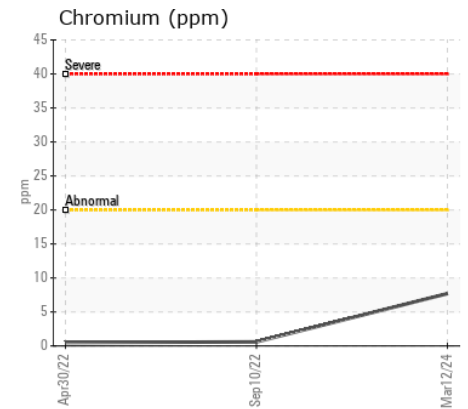
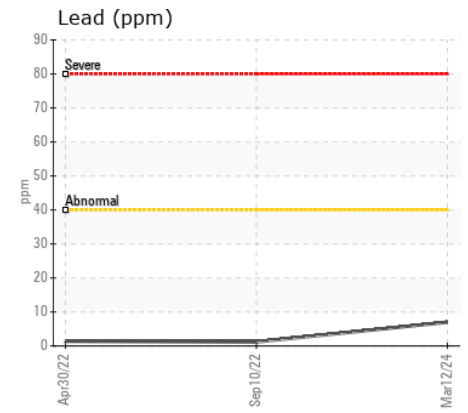
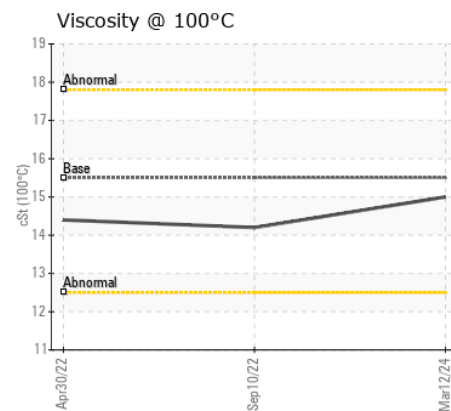
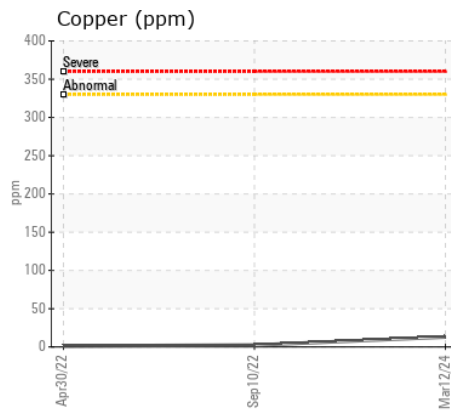
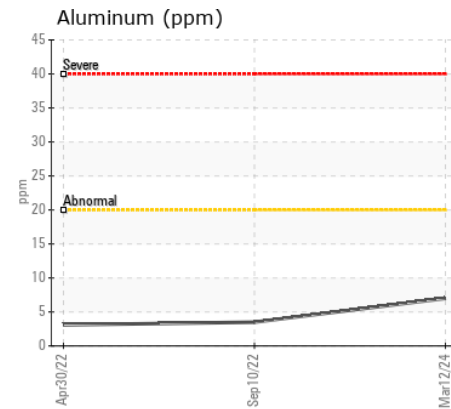
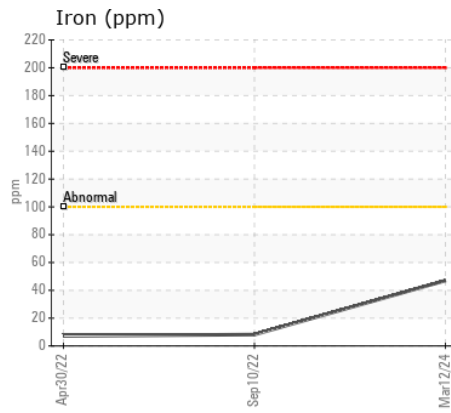
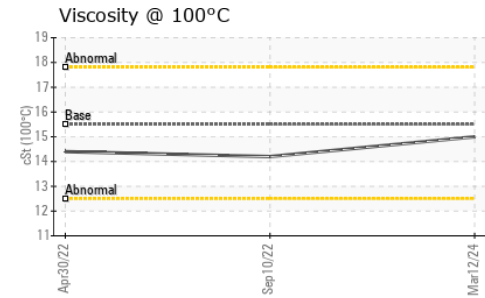
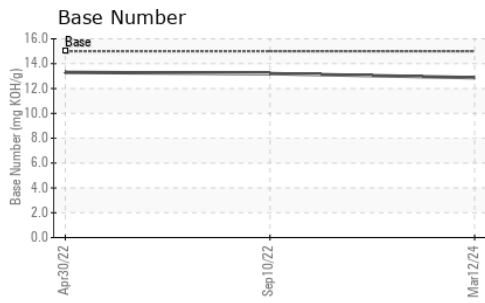
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>21</b>	9	7
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	0
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>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.6</b>	8.8	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	20.8	19.0
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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	1	2
Boron	ppm	ASTM D5185m		<b>153</b>	253	203
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>169</b>	186	186
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>349</b>	426	477
Calcium	ppm	ASTM D5185m	4500	<b>3883</b>	3729	4166
Phosphorus	ppm	ASTM D5185m		<b>871</b>	811	940
Zinc	ppm	ASTM D5185m	1400	<b>1036</b>	1006	1061
Sulfur	ppm	ASTM D5185m		<b>4075</b>	3430	3457
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.1</b>	14.4	11.9
Base Number (BN)	mg KOH/g	ASTM D2896	15	<b>12.87</b>	13.2	13.3
Visc @ 100°C	cSt	ASTM D445	15.5	<b>15.0</b>	14.2	14.4



Certificate L2367

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

**Sample No.** : TR06121759

**Lab Number** : 06121759

**Unique Number** : 10935910

**Test Package** : MOB 2

**Received** : 18 Mar 2024

**Tested** : 19 Mar 2024

**Diagnosed** : 19 Mar 2024 - Wes Davis

**NUTTER ENTERPRISES INC**

28 STONE RD

BELMONT, NH

US 03220

Contact: DON PERCY

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: