



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**TEREX C1545 TEREX 1545 (S/N 7048)**  
 Component  
**Diesel Engine**  
 Fluid  
**TRC MOLY XL PROSPEC III 15W40 (12 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06223661	TR05953444	TR05838618
Sample Date		Client Info		22 Jun 2024	17 Sep 2023	30 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		473	500	616
Filter Age	hrs	Client Info		473	500	616
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	61	14
Chromium	ppm	ASTM D5185m	>20	<1	12	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	7	2
Lead	ppm	ASTM D5185m	>40	<1	9	0
Copper	ppm	ASTM D5185m	>330	6	17	<1
Tin	ppm	ASTM D5185m	>15	0	3	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

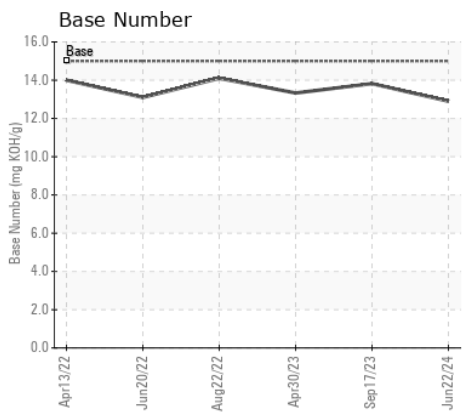
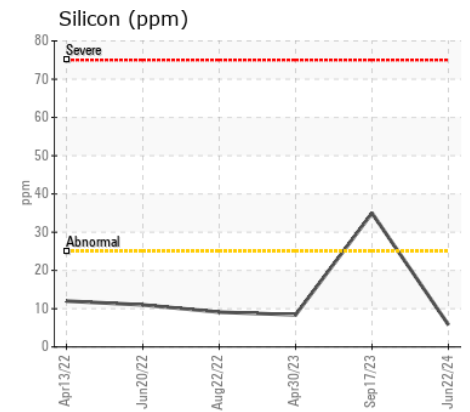
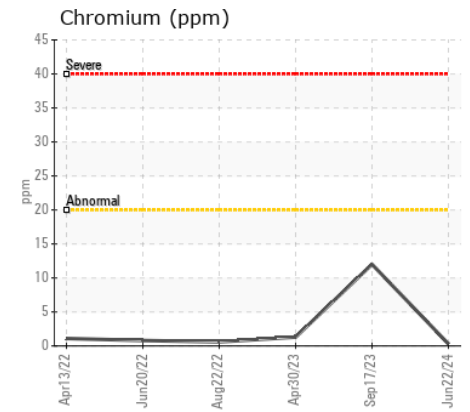
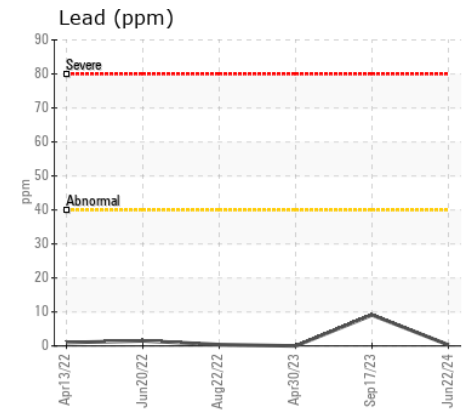
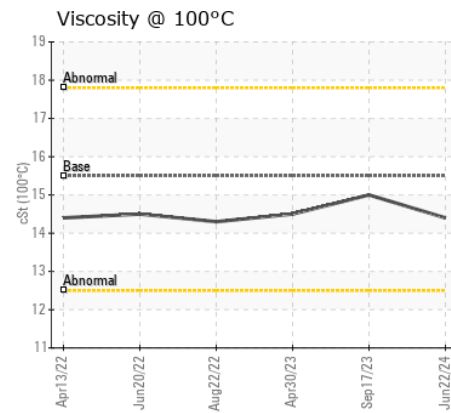
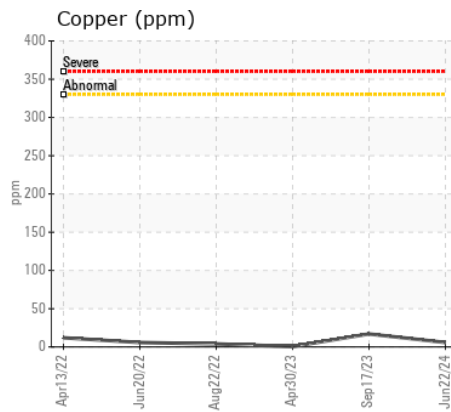
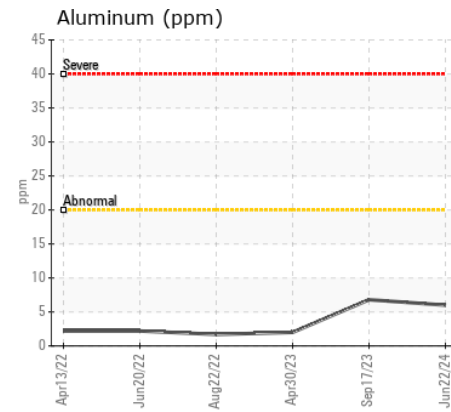
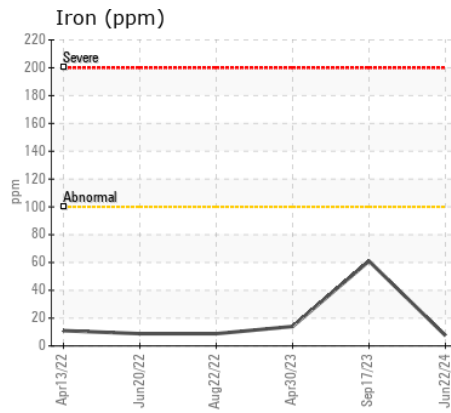
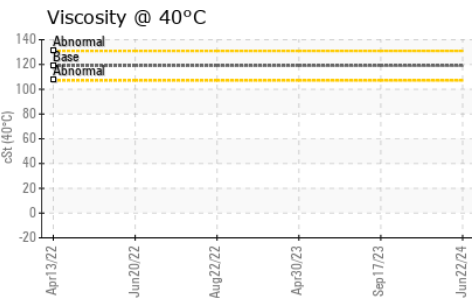
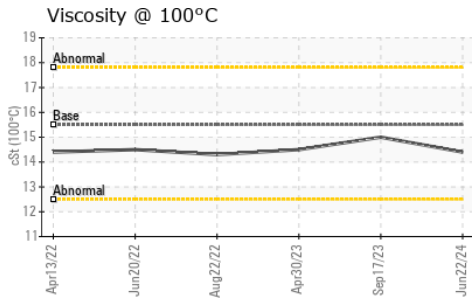
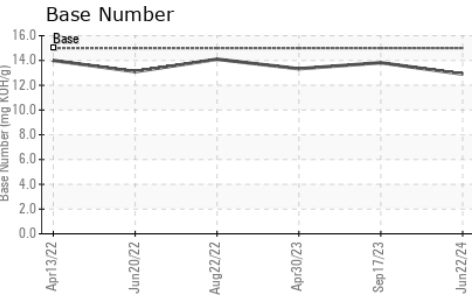
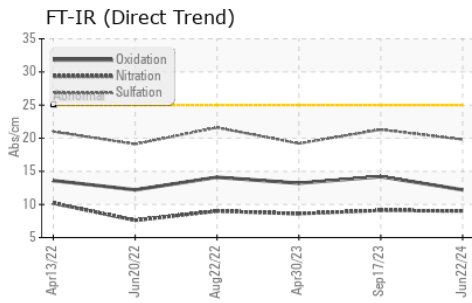
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	▲ 35	8
Potassium	ppm	ASTM D5185m	>20	3	1	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.1	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	21.3	19.2
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	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		5	5	1
Boron	ppm	ASTM D5185m		113	224	208
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		151	173	176
Manganese	ppm	ASTM D5185m		1	2	<1
Magnesium	ppm	ASTM D5185m		264	482	422
Calcium	ppm	ASTM D5185m	4500	4120	4290	3882
Phosphorus	ppm	ASTM D5185m		932	877	868
Zinc	ppm	ASTM D5185m	1400	1037	1135	1050
Sulfur	ppm	ASTM D5185m		4945	4935	4434
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.2	14.2	13.2
Base Number (BN)	mg KOH/g	ASTM D2896	15	12.90	13.82	13.33
Visc @ 100°C	cSt	ASTM D445	15.5	14.4	15.0	14.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06223661  
**Lab Number** : 06223661  
**Unique Number** : 11101858  
**Test Package** : MOB 2 ( Additional Tests: KV40 )

**Received** : 28 Jun 2024  
**Tested** : 01 Jul 2024  
**Diagnosed** : 01 Jul 2024 - Jonathan Hester

**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: