



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**NEW HOLLAND 8770 8770 (S/N D407484)**

Component  
**Diesel Engine**

Fluid  
**TRC MOLY XL PRO-SPEC IV XP 15W40 (5 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR06031830</b>	TR05957166	TR05887548
Sample Date		Client Info		<b>04 Dec 2023</b>	13 Sep 2023	23 Jun 2023
Machine Age	hrs	Client Info		<b>13950</b>	13440	12950
Oil Age	hrs	Client Info		<b>400</b>	1600	1100
Filter Age	hrs	Client Info		<b>400</b>	1600	1100
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>33</b>	137	70
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	13	7
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	3	2
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	9	8
Lead	ppm	ASTM D5185m	>40	<b>7</b>	29	11
Copper	ppm	ASTM D5185m	>330	<b>11</b>	31	20
Tin	ppm	ASTM D5185m	>15	<b>1</b>	4	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

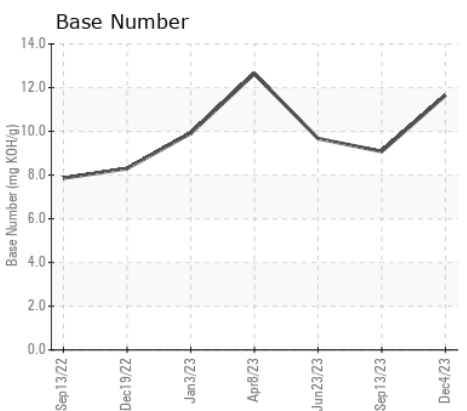
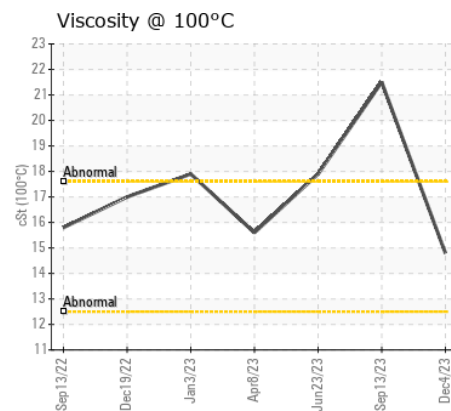
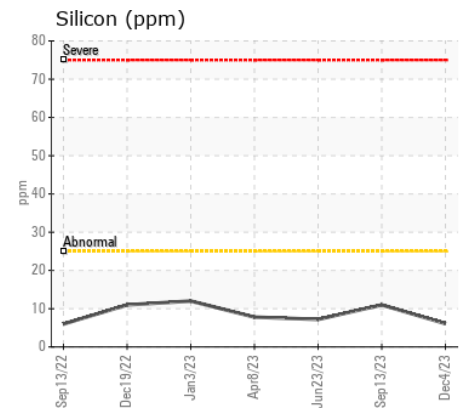
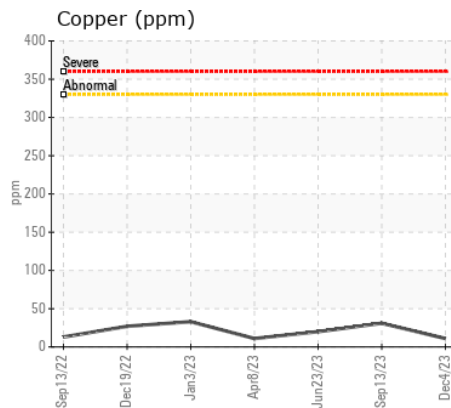
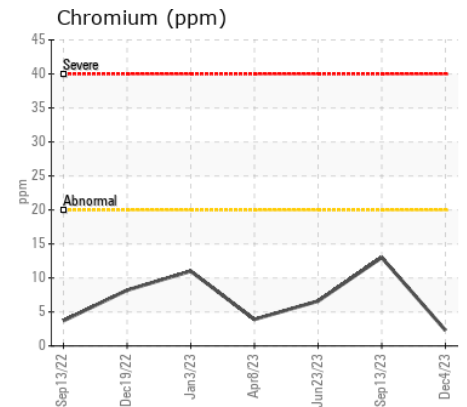
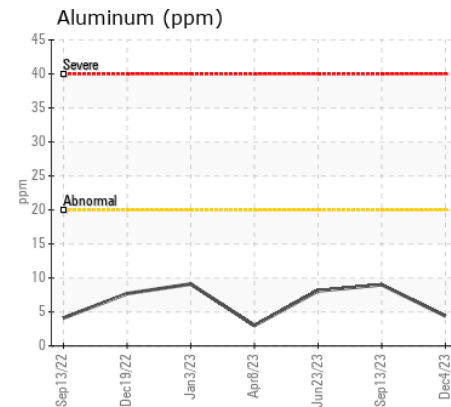
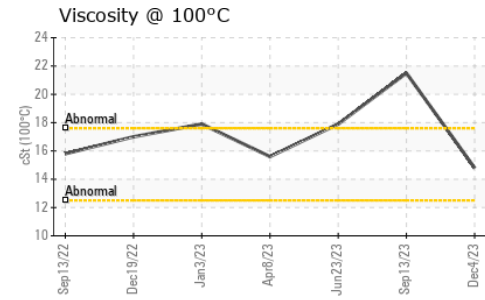
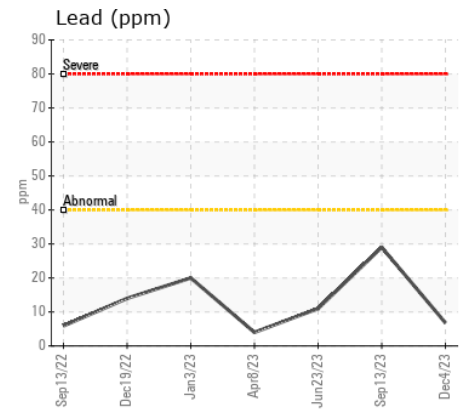
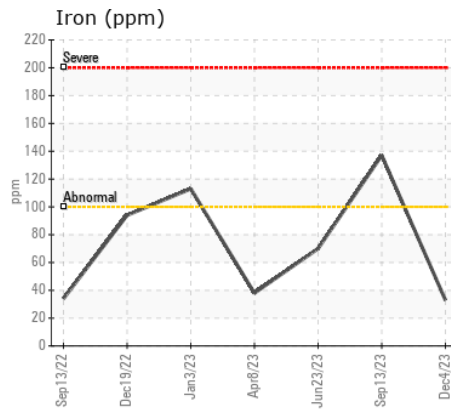
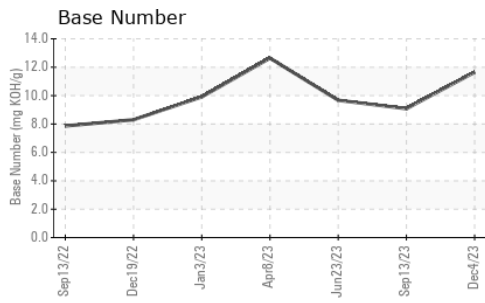
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	11	7
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	2
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>0.9</b>	1.3	1.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.6</b>	26.9	19.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.2</b>	44.2	33.3
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>0</b>	4	3
Boron	ppm	ASTM D5185m		<b>3</b>	<1	4
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>119</b>	134	120
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>19</b>	23	21
Calcium	ppm	ASTM D5185m		<b>4092</b>	5055	4722
Phosphorus	ppm	ASTM D5185m		<b>863</b>	968	917
Zinc	ppm	ASTM D5185m		<b>1045</b>	1194	1131
Sulfur	ppm	ASTM D5185m		<b>4066</b>	4917	5158
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.7</b>	51.4	35.9
Base Number (BN)	mg KOH/g	ASTM D2896		<b>11.65</b>	9.08	9.67
Visc @ 100°C	cSt	ASTM D445		<b>14.8</b>	▲ 21.5	17.9



Certificate L2367

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

Sample No. : TR06031830

Lab Number : 06031830

Unique Number : 10781621

Test Package : MOB 2

Received : 11 Dec 2023

Tested : 15 Dec 2023

Diagnosed : 15 Dec 2023 - Wes Davis

SPRAGUE RANCH

6907 ROUTE 14

BROOKFIELD, VT

US 05036

Contact: SCOTT BURRELL

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: