



**OIL ANALYSIS REPORT**

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**INTERNATIONAL HARVESTER 1566**

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>TR05957167</b>	TR05887542	TR05824519
Sample Date		Client Info		<b>13 Sep 2023</b>	23 Jun 2023	08 Apr 2023
Machine Age	hrs	Client Info		<b>0</b>	10000	6000
Oil Age	hrs	Client Info		<b>500</b>	500	50
Filter Age	hrs	Client Info		<b>500</b>	500	50
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>17</b>	40	20
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
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>&lt;1</b>	5	<1
Lead	ppm	ASTM D5185m	>40	<b>2</b>	4	<1
Copper	ppm	ASTM D5185m	>330	<b>27</b>	136	15
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

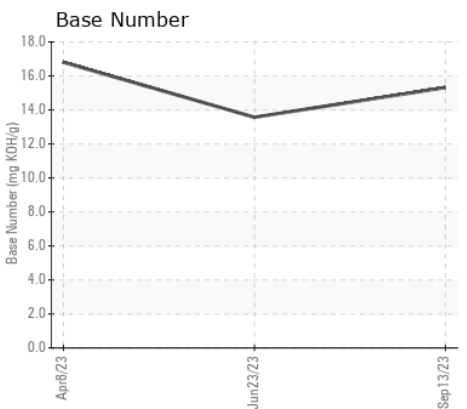
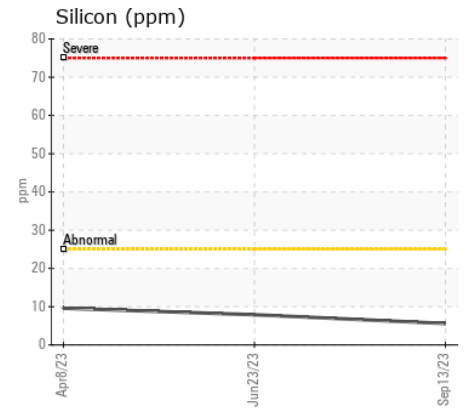
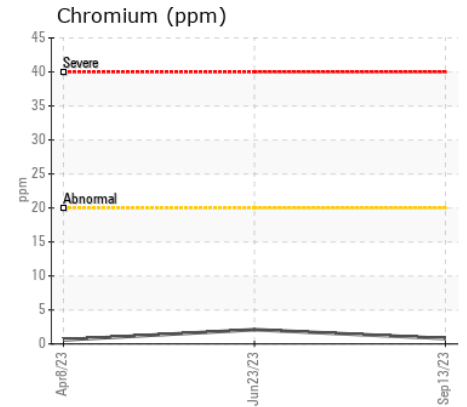
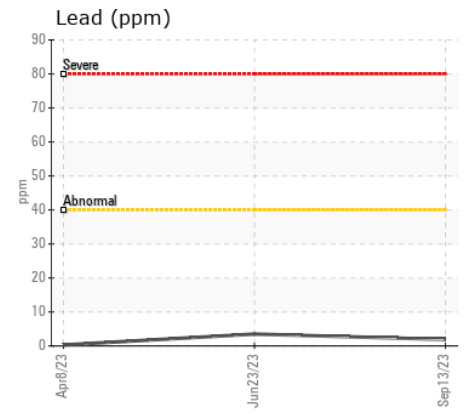
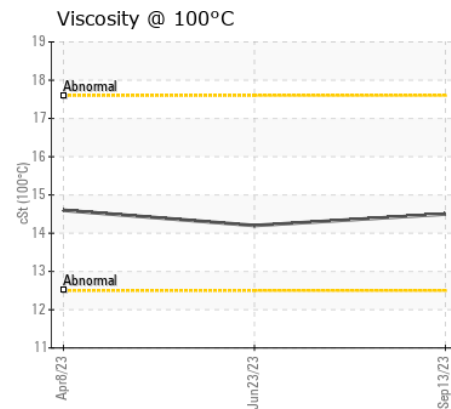
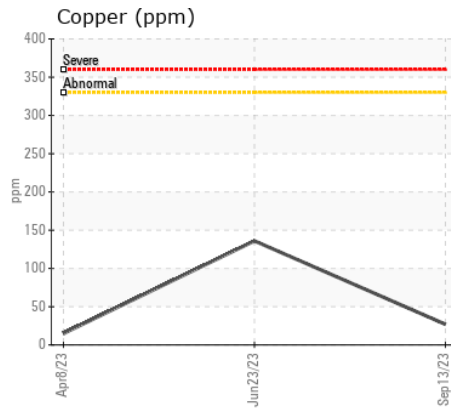
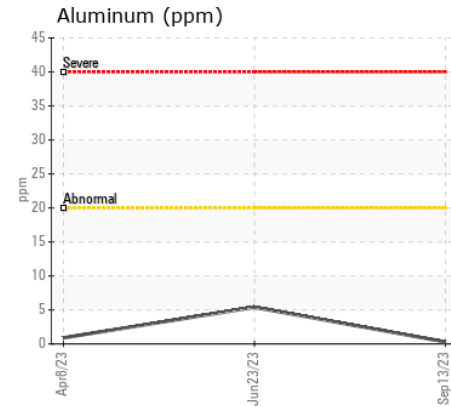
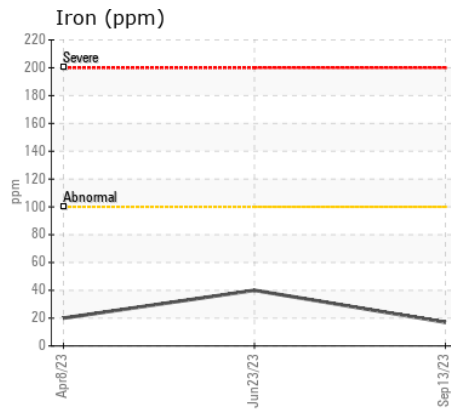
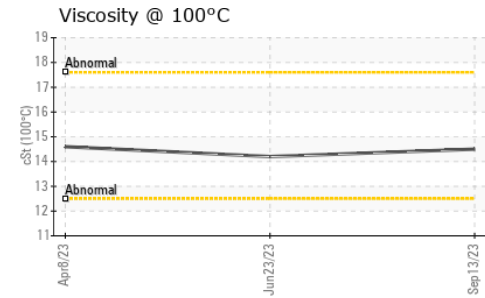
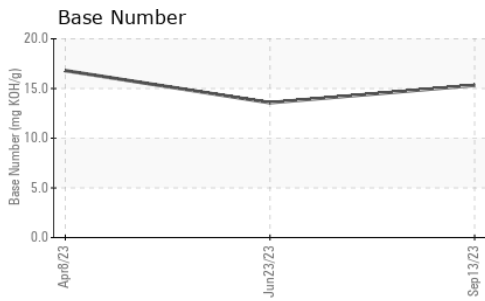
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	8	10
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	15	19
Fuel		WC Method	>2.0	<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>0.2</b>	▲ 3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.2</b>	14.5	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.1</b>	27.4	16.4
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>	10	11
Boron	ppm	ASTM D5185m		<b>0</b>	10	14
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>128</b>	106	107
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>21</b>	19	21
Calcium	ppm	ASTM D5185m		<b>4439</b>	4190	3899
Phosphorus	ppm	ASTM D5185m		<b>887</b>	853	862
Zinc	ppm	ASTM D5185m		<b>1082</b>	1055	1010
Sulfur	ppm	ASTM D5185m		<b>4875</b>	4678	4478
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.8</b>	18.8	10.1
Base Number (BN)	mg KOH/g	ASTM D2896		<b>15.32</b>	13.57	16.80
Visc @ 100°C	cSt	ASTM D445		<b>14.5</b>	14.2	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : TR05957167  
 Lab Number : 05957167  
 Unique Number : 10658380  
 Test Package : MOB 2

Received : 20 Sep 2023  
 Tested : 25 Sep 2023  
 Diagnosed : 25 Sep 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: