



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

Machine Id  
**INTERNATIONAL 7201L**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 15W40 (44 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL06175092</b>	IL05997736	IL0028034
Sample Date		Client Info		<b>01 Mar 2024</b>	18 Oct 2023	01 Mar 2023
Machine Age	mls	Client Info		<b>410982</b>	392974	346800
Oil Age	mls	Client Info		<b>0</b>	46174	15000
Filter Age	mls	Client Info		<b>0</b>	0	15000
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>21</b>	47	60
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	8
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	6	8
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	5	5
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	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

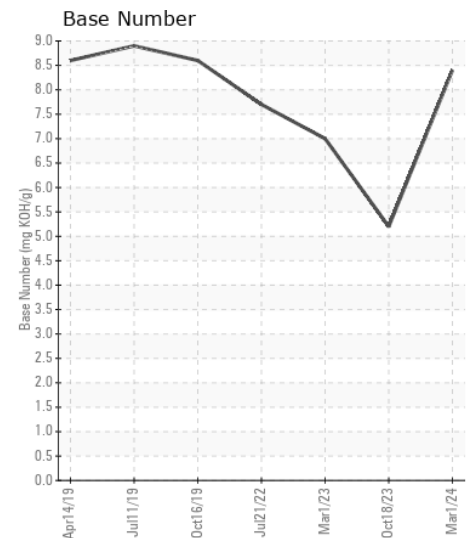
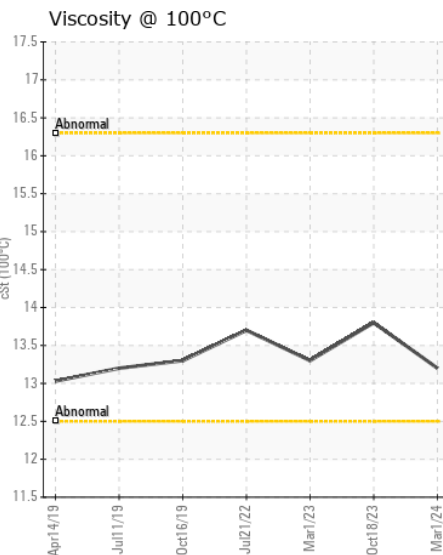
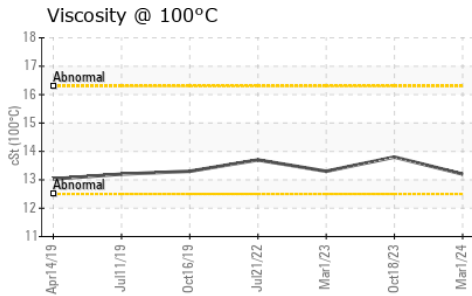
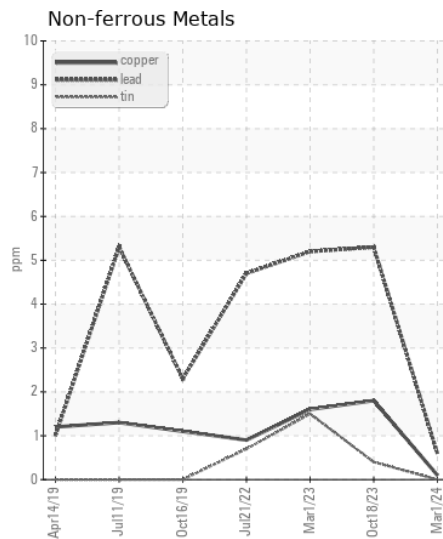
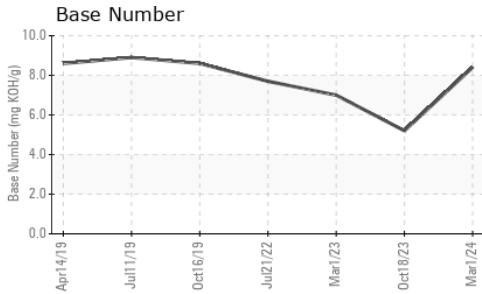
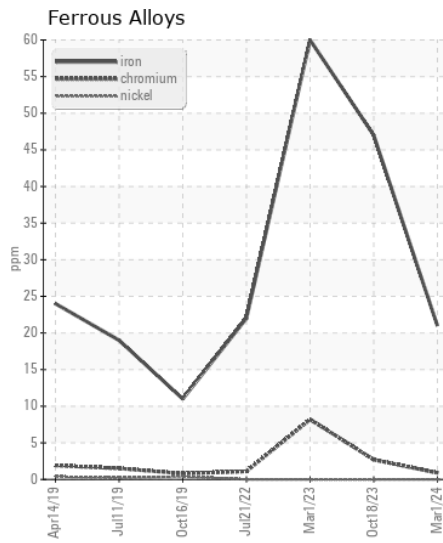
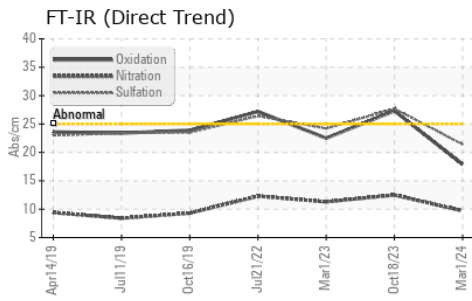
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	6	11
Fuel		WC Method	>3.0	<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	>6	<b>0.6</b>	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	12.5	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.4</b>	27.7	24.2
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	>118	<b>1</b>	3	2
Boron	ppm	ASTM D5185m		<b>0</b>	1	6
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>63</b>	65	69
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>1034</b>	1030	1034
Calcium	ppm	ASTM D5185m		<b>1163</b>	1093	1296
Phosphorus	ppm	ASTM D5185m		<b>1091</b>	954	1087
Zinc	ppm	ASTM D5185m		<b>1309</b>	1279	1398
Sulfur	ppm	ASTM D5185m		<b>3497</b>	2912	3774
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.9</b>	27.3	22.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.4</b>	5.2	7.0
Visc @ 100°C	cSt	ASTM D445		<b>13.2</b>	13.8	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL06175092  
**Lab Number** : 06175092  
**Unique Number** : 11021145  
**Test Package** : FLEET

**Received** : 10 May 2024  
**Tested** : 10 May 2024  
**Diagnosed** : 10 May 2024 - Wes Davis

**RUSH TRUCK CENTER - CHICAGO IDEALEASE**  
 4655 SOUTH CENTRAL AVENUE  
 CHICAGO, IL  
 US 60638

Contact: MIKE LINLEY  
 linleym@rushtruckcenters.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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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