



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

Machine Id  
**151902**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL06151619</b>	IL06035602	IL05546981
Sample Date		Client Info		<b>24 Mar 2024</b>	24 Oct 2023	06 May 2022
Machine Age	hrs	Client Info		<b>5911</b>	5533	4001
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>29</b>	30	43
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	3	5
Lead	ppm	ASTM D5185m	>40	<b>2</b>	2	4
Copper	ppm	ASTM D5185m	>330	<b>3</b>	11	4
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

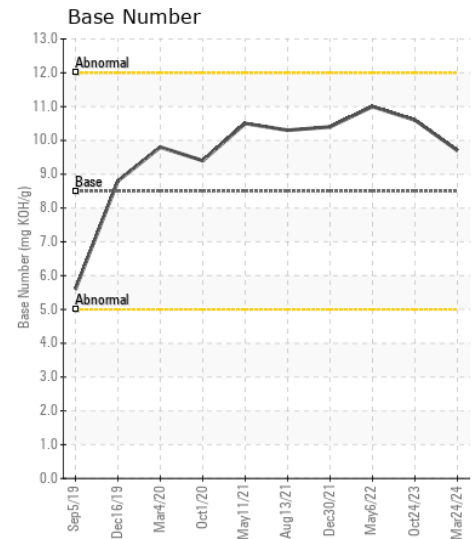
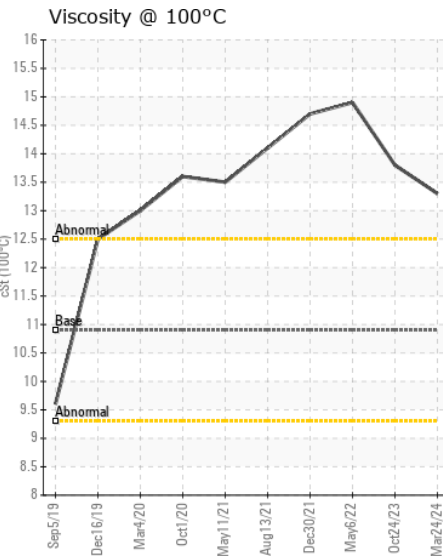
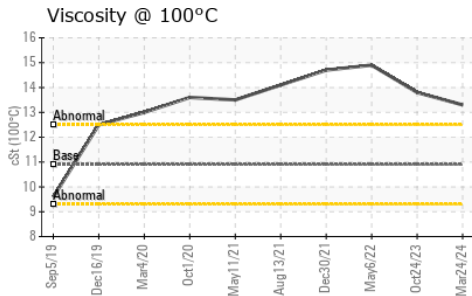
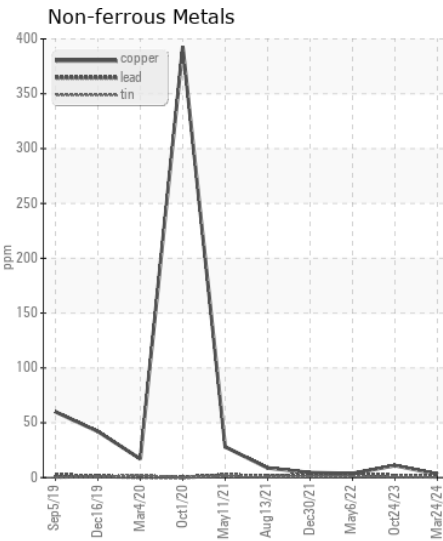
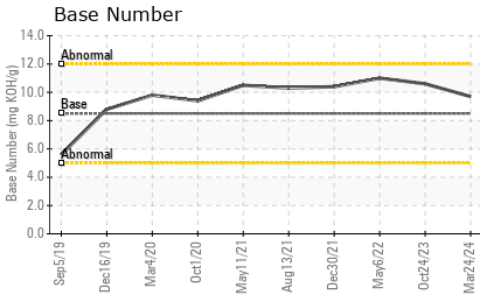
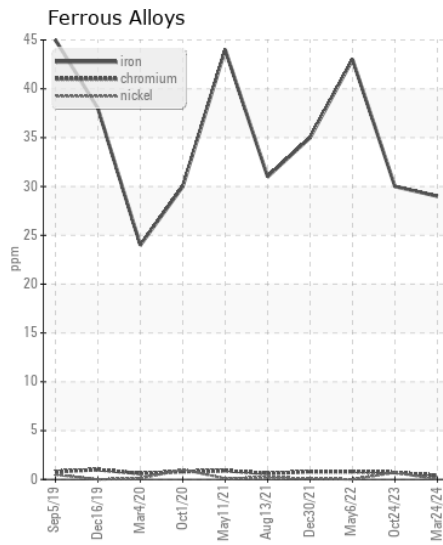
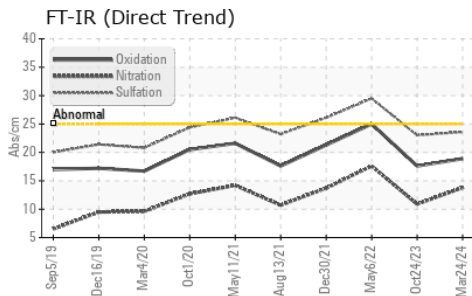
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	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>2.2</b>	1.7	▲ 3
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.8</b>	10.9	17.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.6</b>	23.0	29.5
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	>75	<b>3</b>	0	2
Boron	ppm	ASTM D5185m	250	<b>3</b>	5	6
Barium	ppm	ASTM D5185m	10	<b>0</b>	12	0
Molybdenum	ppm	ASTM D5185m	100	<b>62</b>	59	61
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>906</b>	907	1028
Calcium	ppm	ASTM D5185m	3000	<b>1095</b>	1155	1332
Phosphorus	ppm	ASTM D5185m	1150	<b>978</b>	984	1112
Zinc	ppm	ASTM D5185m	1350	<b>1138</b>	1221	1278
Sulfur	ppm	ASTM D5185m	4250	<b>3322</b>	3295	2873
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	17.6	25.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>9.7</b>	10.6	11.0
Visc @ 100°C	cSt	ASTM D445	10.9	<b>13.3</b>	13.8	▲ 14.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL06151619  
**Lab Number** : 06151619  
**Unique Number** : 10981697  
**Test Package** : FLEET

**Received** : 17 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Jonathan Hester

**RUSH TRUCK LEASING - CINCINNATI IDEALEASE**  
 11777 HIGHWAY DRIVE  
 CINCINNATI, OH  
 US 45241  
 Contact: ROBERT BAIER  
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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)