



# OIL ANALYSIS REPORT

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

Machine Id  
**A-430**  
 Component  
**Diesel Engine**  
 Fluid  
**DURAMAX 15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0030728</b>	DC0030732	DC0029735
Sample Date		Client Info		<b>06 Mar 2024</b>	18 Nov 2023	19 Aug 2023
Machine Age	hrs	Client Info		<b>1992</b>	1348	672
Oil Age	hrs	Client Info		<b>644</b>	676	672
Filter Age	hrs	Client Info		<b>644</b>	676	672
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>19</b>	24	44
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
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>3</b>	3	9
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	2
Copper	ppm	ASTM D5185m	>330	<b>14</b>	64	24
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

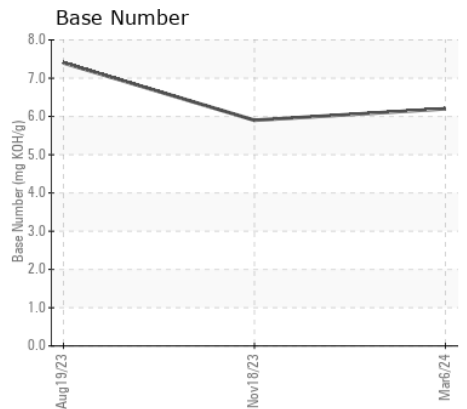
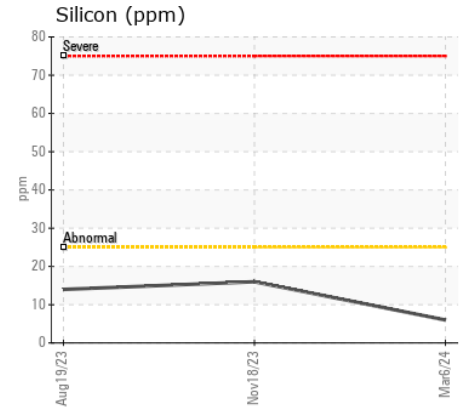
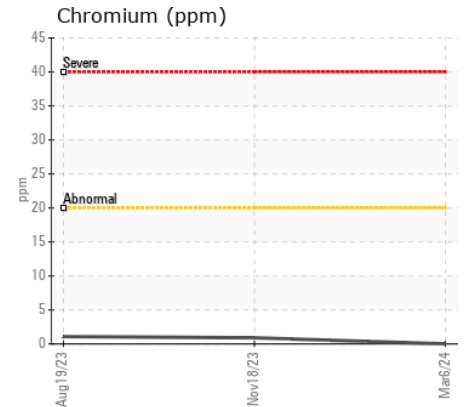
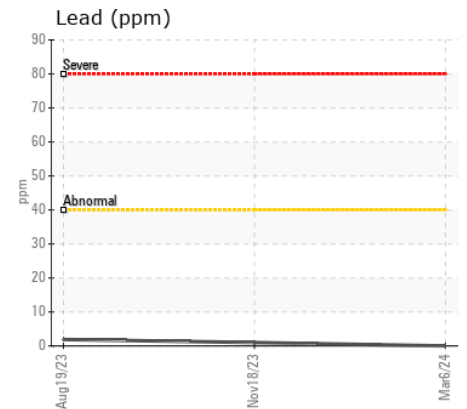
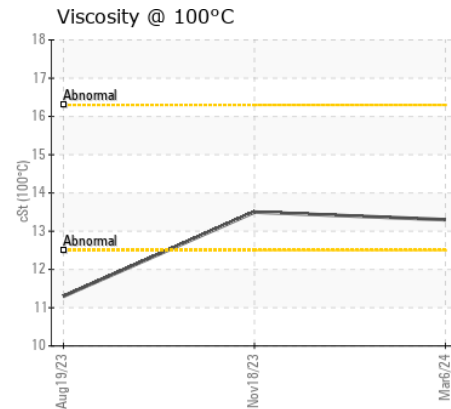
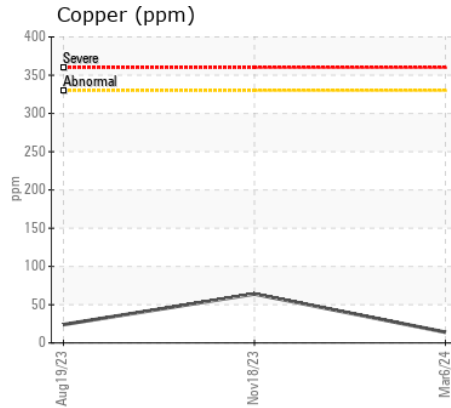
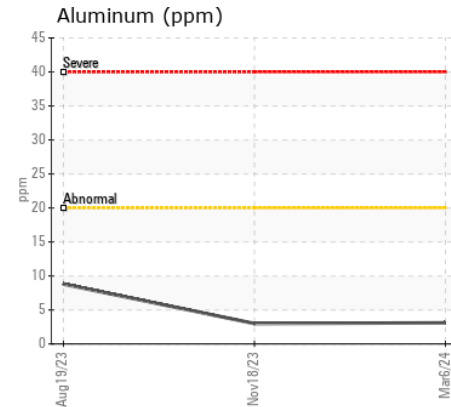
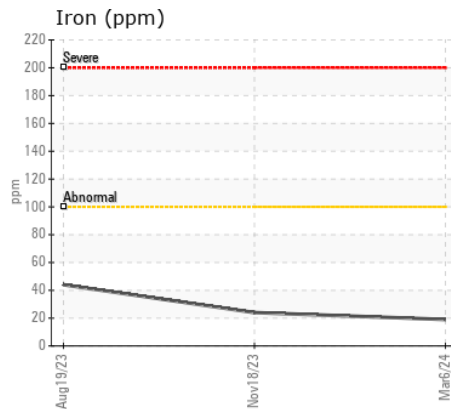
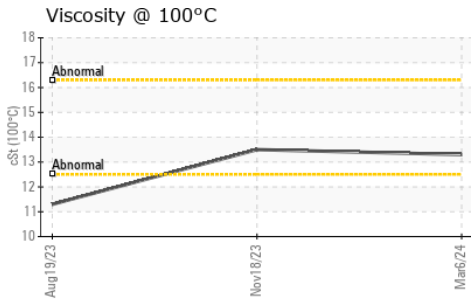
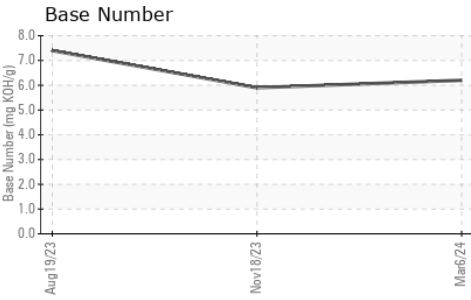
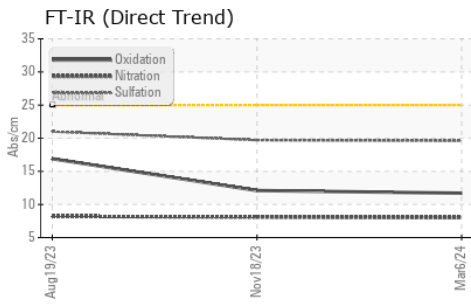
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	16	14
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	11	37
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	0.6
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.0</b>	8.1	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.6</b>	19.7	21.0
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>2</b>	<1	7
Boron	ppm	ASTM D5185m		<b>13</b>	4	63
Barium	ppm	ASTM D5185m		<b>0</b>	0	12
Molybdenum	ppm	ASTM D5185m		<b>10</b>	8	63
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	5
Magnesium	ppm	ASTM D5185m		<b>94</b>	77	401
Calcium	ppm	ASTM D5185m		<b>2309</b>	2245	1731
Phosphorus	ppm	ASTM D5185m		<b>919</b>	875	1000
Zinc	ppm	ASTM D5185m		<b>1081</b>	1032	1269
Sulfur	ppm	ASTM D5185m		<b>4060</b>	3303	3015
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>11.7</b>	12.1	16.9
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.2</b>	5.9	7.4
Visc @ 100°C	cSt	ASTM D445		<b>13.3</b>	13.5	11.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0030728 **Received** : 11 Apr 2024  
**Lab Number** : 06146441 **Tested** : 12 Apr 2024  
**Unique Number** : 10976519 **Diagnosed** : 12 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**THOMAS BENNETT & HUNTER INC**  
 70 JOHN ST  
 WESTMINSTER, MD  
 US 21157  
 Contact: JOE STEPHAN  
 jstephan@tbhconcrete.com  
 T: (410)848-9030  
 F: (410)848-9032

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)