

Machine Id INTERNATIONAL 7600 A-383 Component Diesel Engine

DURAMAX 15W40 (40 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0020725	DC0024204	DC0021265
	Sample Date		Client Info		02 Dec 2023	15 Jul 2023	01 Oct 2022
	Machine Age	hrs	Client Info		17016	16201	14709
	Oil Age	hrs	Client Info		608	684	774
	Filter Age	hrs	Client Info		608	684	774
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	38	37	42
	Chromium	ppm	ASTM D5185m	>20	2	2	2
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	7	6	8
	Lead	ppm	ASTM D5185m		1	1	2
	Copper	ppm	ASTM D5185m	>330	5	2	3
	Tin	ppm	ASTM D5185m	>15	2	1	2
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11	13	12
	Potassium	ppm	ASTM D5185m	>20	2	5	6
There is no indication of any contamination in the oil.	Fuel	1.1.	WC Method	>2.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.6	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.4	12.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	24.3	29
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	2
	Boron	ppm	ASTM D5185m		2	0	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		5	4	5
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		68	57	59
	Calcium	ppm	ASTM D5185m		2555	2687	2695
	Phosphorus	ppm	ASTM D5185m		1003	1019	996
	Zinc	ppm	ASTM D5185m		1178	1291	1189
	Sulfur	ppm	ASTM D5185m		4458	4860	4584
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	15.8	19.1
	Base Number (BN)	mg KOH/g	ASTM D2896		5.7	6.57	6
	Vier (0. 10000	- 01				107	10.1

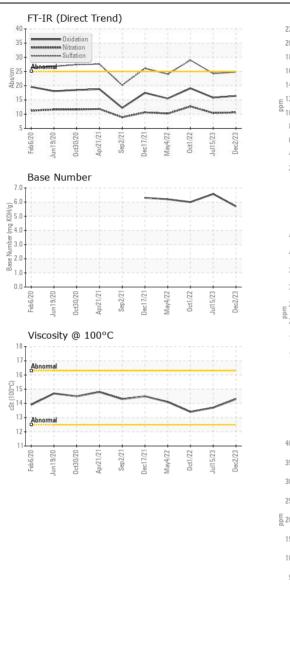
Visc @ 100°C cSt

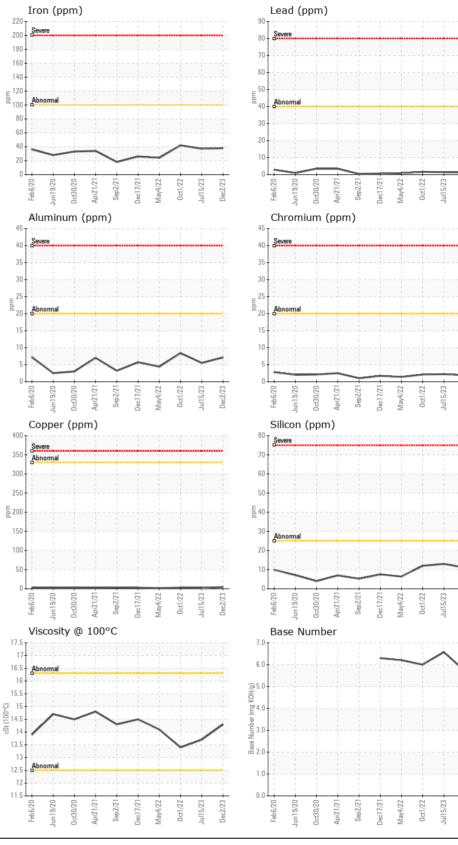
ASTM D445

13.7

13.4

14.3





THOMAS BENNETT & HUNTER INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0020725 70 JOHN ST Sample No. Received : 11 Apr 2024 WESTMINSTER, MD Lab Number : 06146474 Tested : 12 Apr 2024 : 12 Apr 2024 - Wes Davis US 21157 Unique Number : 10976552 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: JOE STEPHAN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jstephan@tbhconcrete.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (410)848-9030 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (410)848-9032

Contact/Location: JOE STEPHAN - THOWESMD Page 2 of 2

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