



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Machine Id
INTERNATIONAL 7600 A-382
 Component
Diesel Engine
 Fluid
DURAMAX 15W40 (40 QTS)

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

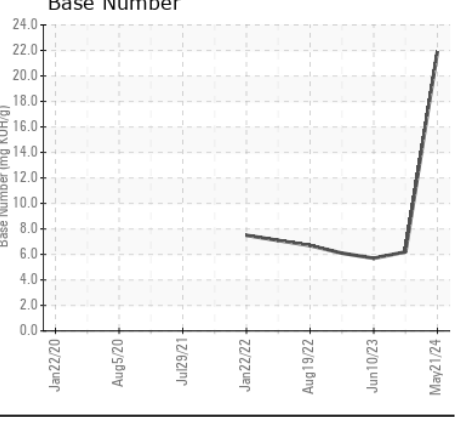
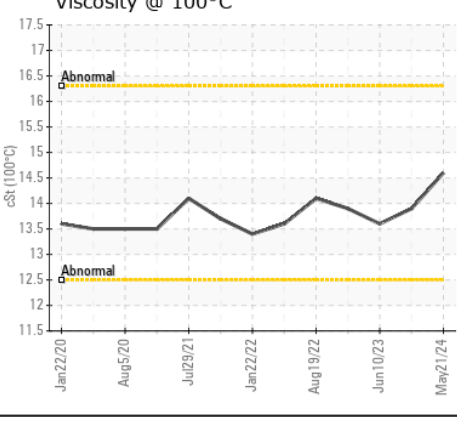
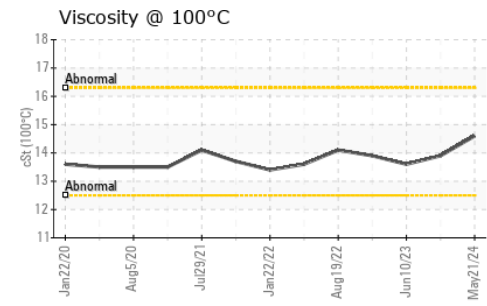
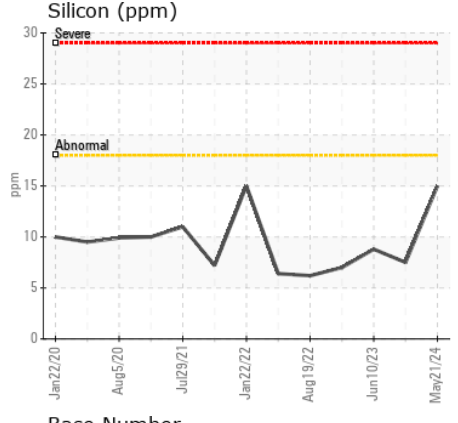
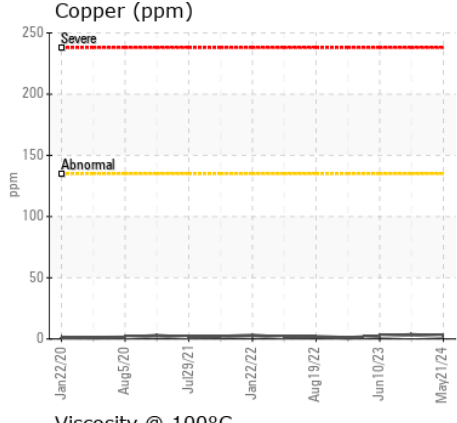
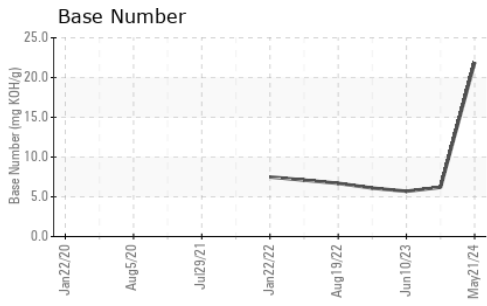
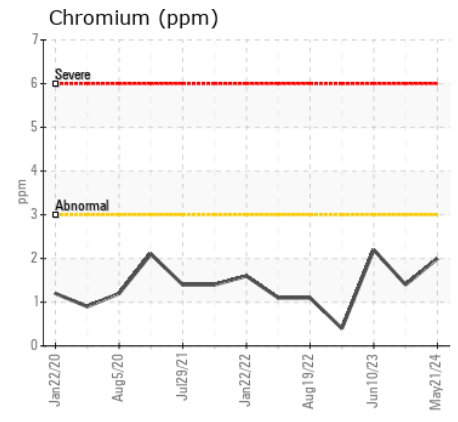
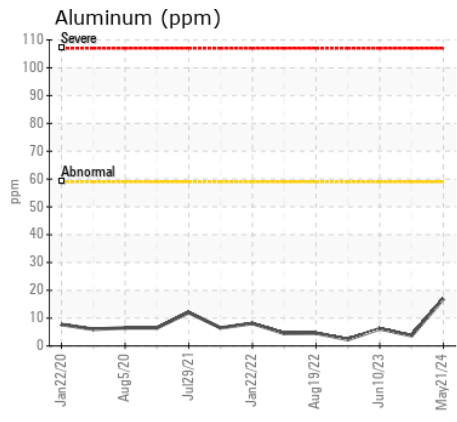
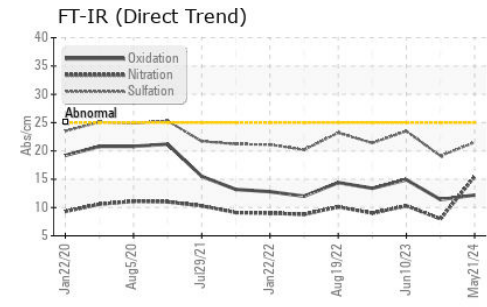
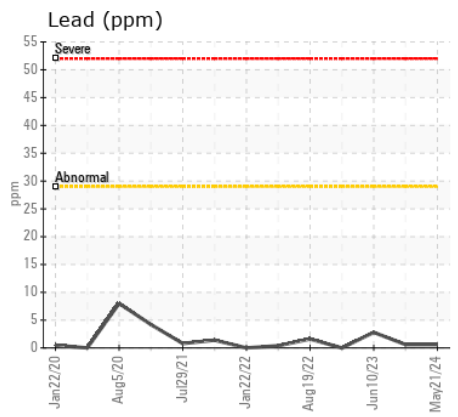
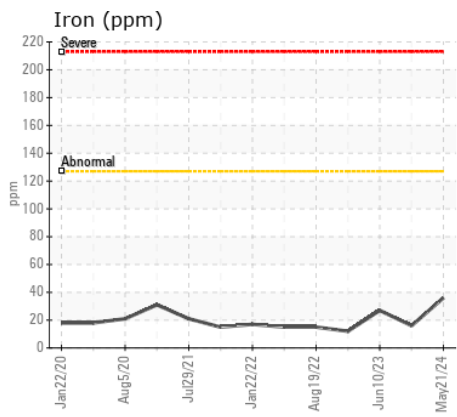
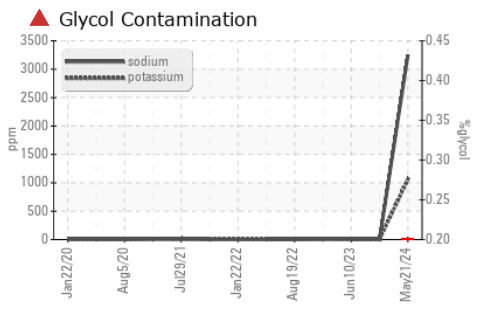
CONTAMINATION

Test for glycol is positive. There is a high concentration of glycol present in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0034936	DC0030804	DC0022564
Sample Date		Client Info		21 May 2024	16 Sep 2023	10 Jun 2023
Machine Age	hrs	Client Info		17405	16313	15797
Oil Age	hrs	Client Info		548	516	935
Filter Age	hrs	Client Info		548	516	935
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>127	36	16	27
Chromium	ppm	ASTM D5185m	>3	2	1	2
Nickel	ppm	ASTM D5185m	>30	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>59	17	4	6
Lead	ppm	ASTM D5185m	>29	<1	<1	3
Copper	ppm	ASTM D5185m	>135	2	3	2
Tin	ppm	ASTM D5185m	>2	0	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>18	15	8	9
Potassium	ppm	ASTM D5185m	>20	▲ 1058	4	3
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		▲ 0.20	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	15.5	8.0	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	19.1	23.5
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
Sodium	ppm	ASTM D5185m		● 3248	2	2
Boron	ppm	ASTM D5185m		9	<1	0
Barium	ppm	ASTM D5185m		<1	11	0
Molybdenum	ppm	ASTM D5185m		374	3	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		76	48	67
Calcium	ppm	ASTM D5185m		2229	2259	2709
Phosphorus	ppm	ASTM D5185m		832	897	1018
Zinc	ppm	ASTM D5185m		1108	1097	1293
Sulfur	ppm	ASTM D5185m		3678	3722	4913
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.2	11.4	14.9
Base Number (BN)	mg KOH/g	ASTM D2896		21.9	6.2	5.7
Visc @ 100°C	cSt	ASTM D445		14.6	13.9	13.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034936 **Received** : 26 Jun 2024
Lab Number : 06221057 **Tested** : 28 Jun 2024
Unique Number : 11099254 **Diagnosed** : 28 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol, TBN)
 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)

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