MOB I

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 7600 A-374
Component
Diesel Engine
Fluid
DURAMAX 15W40 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

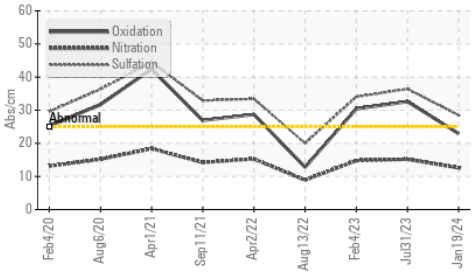
There is no indication of any contamination in the oil.

FLUID CONDITION

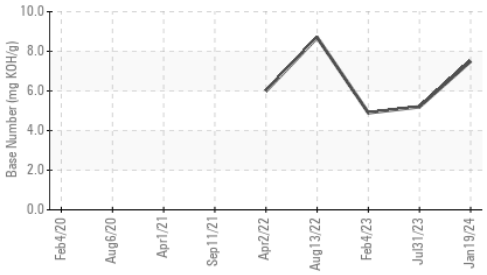
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0020727	DC0025552	DC0020502
Sample Date		Client Info		19 Jan 2024	31 Jul 2023	04 Feb 2023
Machine Age	hrs	Client Info		20061	18995	17770
Oil Age	hrs	Client Info		1066	1225	1325
Filter Age	hrs	Client Info		1066	1225	1325
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>127	38	69	34
Chromium	ppm	ASTM D5185m	>3	1	2	1
Nickel	ppm	ASTM D5185m	>30	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>59	3	6	2
Lead	ppm	ASTM D5185m	>29	6	23	8
Copper	ppm	ASTM D5185m	>135	5	5	2
Tin	ppm	ASTM D5185m	>2	2	4	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>18	7	10	8
Potassium	ppm	ASTM D5185m	>20	2	3	3
Fuel		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	0.4	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.6	15.2	14.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.5	36.4	34.0
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		4	3	3
Boron	ppm	ASTM D5185m		3	2	3
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		74	71	68
Calcium	ppm	ASTM D5185m		3026	3872	3173
Phosphorus	ppm	ASTM D5185m		1196	1408	1186
Zinc	ppm	ASTM D5185m		1385	1686	1429
Sulfur	ppm	ASTM D5185m		4819	5798	5287
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9	32.6	30.4
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	5.2	4.9
Visc @ 100°C	cSt	ASTM D445		15.1	15.3	14.5

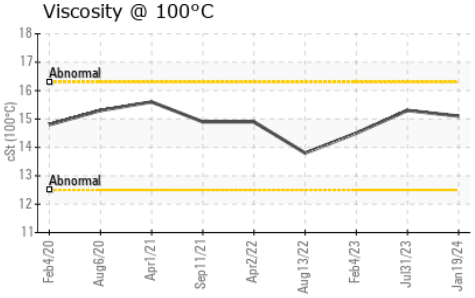
FT-IR (Direct Trend)



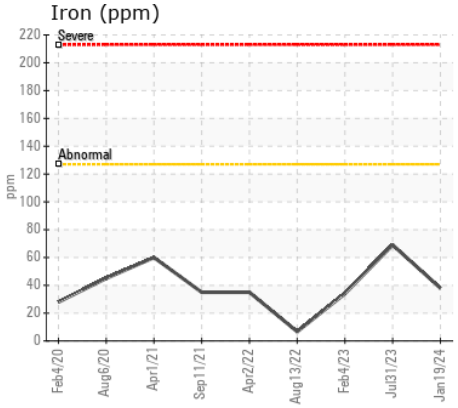
Base Number



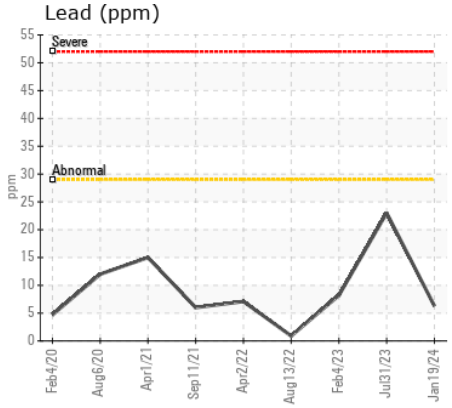
Viscosity @ 100°C



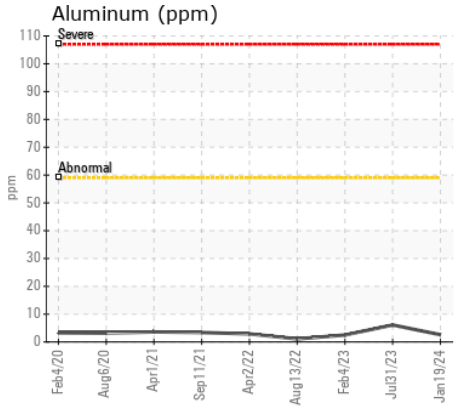
Iron (ppm)



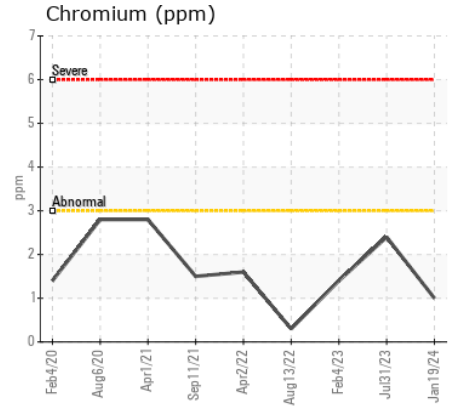
Lead (ppm)



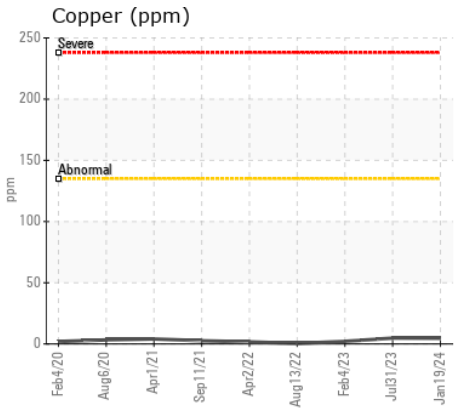
Aluminum (ppm)



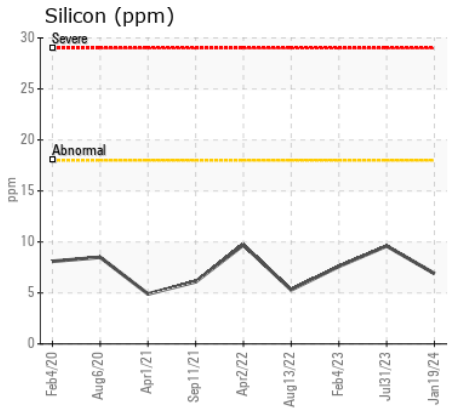
Chromium (ppm)



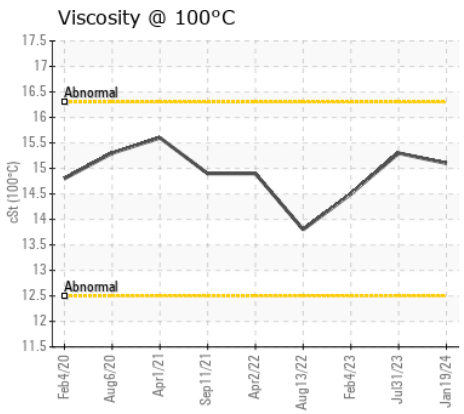
Copper (ppm)



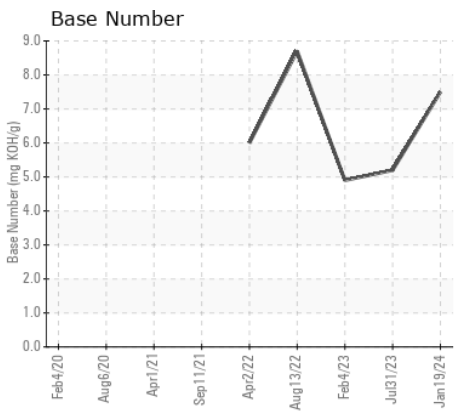
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0020727
Lab Number : 06146442
Unique Number : 10976520
Test Package : MOB 1 (Additional Tests: TBN)

Received : 11 Apr 2024
Tested : 12 Apr 2024
Diagnosed : 15 Apr 2024 - Don Baldridge

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