MOB I

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
A-370
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.

WEAR

All component wear rates are normal.

CONTAMINATION

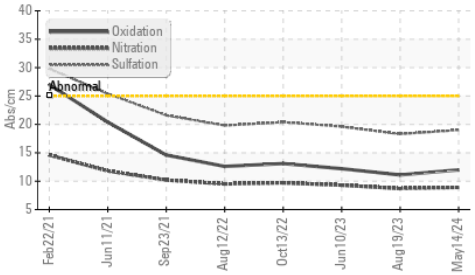
There is no indication of any contamination in the oil.

FLUID CONDITION

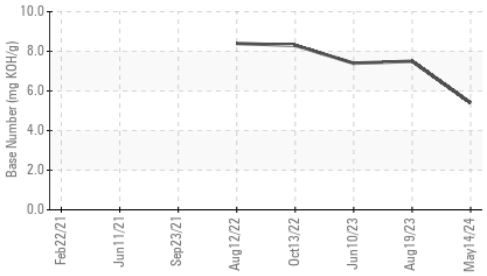
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0031958	DC0022573	DC0022589
Sample Date		Client Info		14 May 2024	19 Aug 2023	10 Jun 2023
Machine Age	hrs	Client Info		22864	21192	20885
Oil Age	hrs	Client Info		941	317	768
Filter Age	hrs	Client Info		941	317	768
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	6	13	18
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	2	2	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	3
Lead	ppm	ASTM D5185m	>40	0	<1	4
Copper	ppm	ASTM D5185m	>330	<1	4	14
Tin	ppm	ASTM D5185m	>15	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	>25	5	8	7
Potassium	ppm	ASTM D5185m	>20	3	5	7
Fuel		WC Method	>5	<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	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.7	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.3	19.6
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		2	19	163
Boron	ppm	ASTM D5185m		3	2	<1
Barium	ppm	ASTM D5185m		0	11	0
Molybdenum	ppm	ASTM D5185m		3	4	19
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		60	48	54
Calcium	ppm	ASTM D5185m		2315	2257	2527
Phosphorus	ppm	ASTM D5185m		847	904	966
Zinc	ppm	ASTM D5185m		1139	1089	1239
Sulfur	ppm	ASTM D5185m		3637	3680	4756
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0	11.1	12.2
Base Number (BN)	mg KOH/g	ASTM D2896		5.4	7.5	7.4
Visc @ 100°C	cSt	ASTM D445		14.0	14.2	14.2

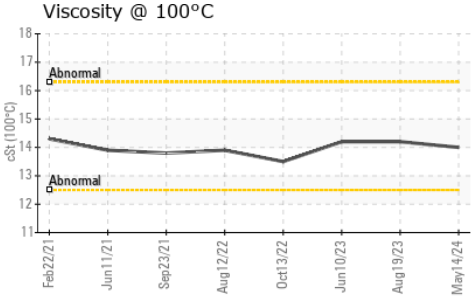
FT-IR (Direct Trend)



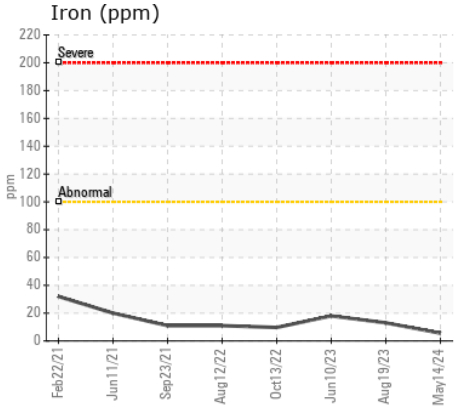
Base Number



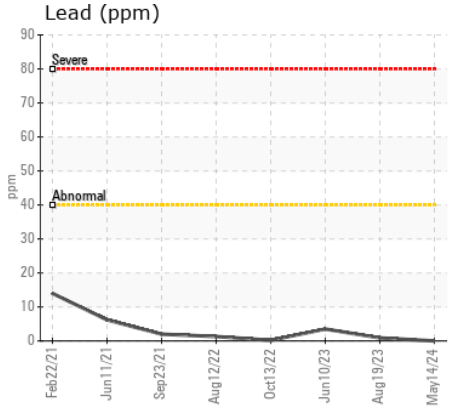
Viscosity @ 100°C



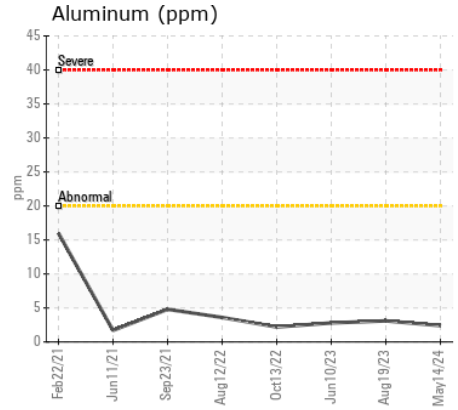
Iron (ppm)



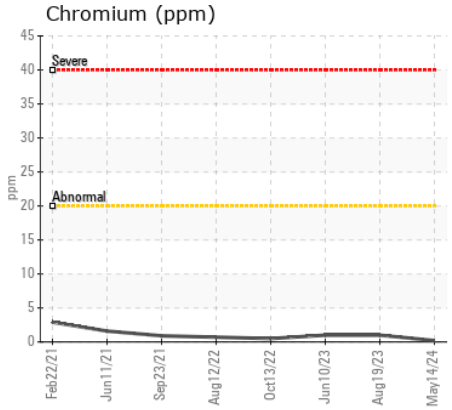
Lead (ppm)



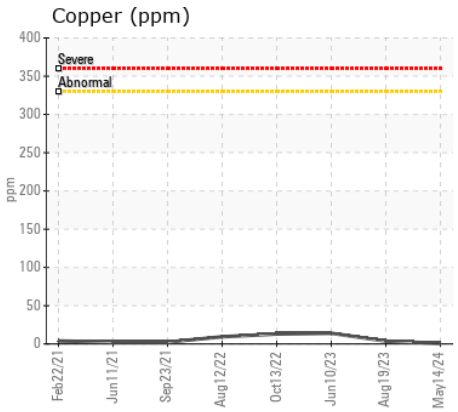
Aluminum (ppm)



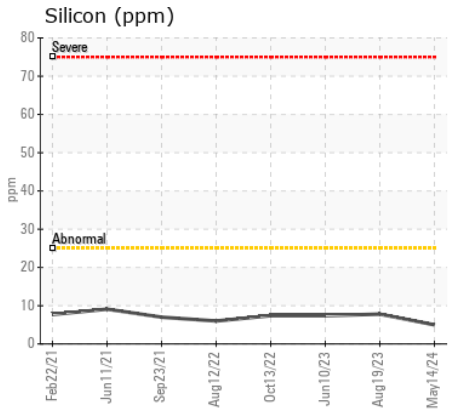
Chromium (ppm)



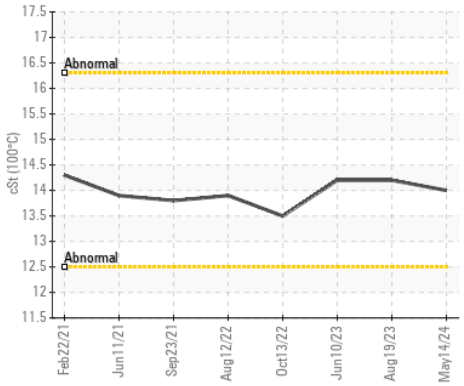
Copper (ppm)



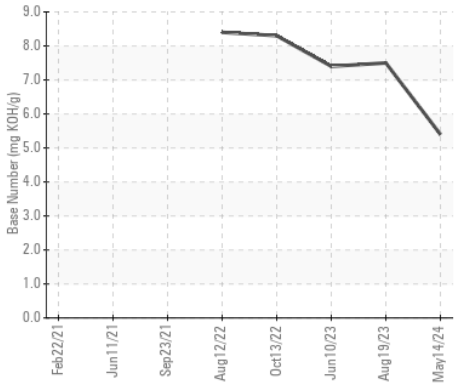
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0031958
Lab Number : 06221037
Unique Number : 11099234
Test Package : MOB 1 (Additional Tests: TBN)

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Wes Davis

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