



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MASSEY FERGUSEN MASSEY FERGUSEN 85-265
 Component
Diesel Engine
 Fluid
DURALENE Dura-Max 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0026425	DC0020476	DC0020482
Sample Date		Client Info		26 May 2023	09 Mar 2023	06 Jan 2023
Machine Age	hrs	Client Info		2603	1941	1289
Oil Age	hrs	Client Info		662	600	618
Filter Age	hrs	Client Info		662	600	618
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

The lead level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	13	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	1	1
Lead	ppm	ASTM D5185m	>40	▲ 63	19	9
Copper	ppm	ASTM D5185m	>330	6	1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

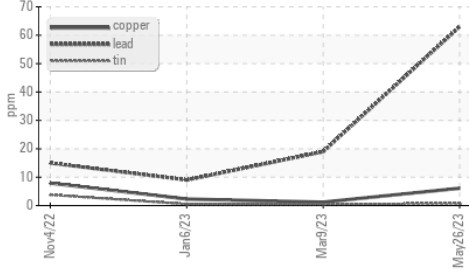
Silicon	ppm	ASTM D5185m	>25	4	3	5
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.7	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.0	20.0
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

FLUID CONDITION

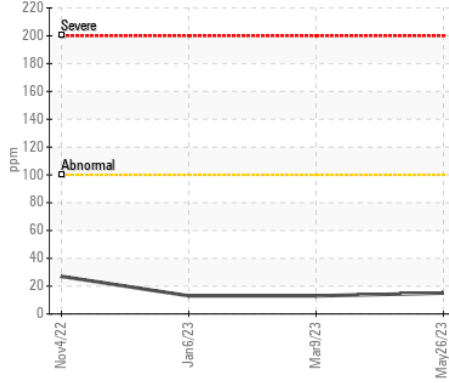
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		1	2	2
Boron	ppm	ASTM D5185m		8	4	11
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		66	60	60
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		1005	958	920
Calcium	ppm	ASTM D5185m		1388	1278	1342
Phosphorus	ppm	ASTM D5185m		1127	1084	1041
Zinc	ppm	ASTM D5185m		1442	1306	1270
Sulfur	ppm	ASTM D5185m		3989	3866	3755
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	16.6	16.5
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	9.0	9.2
Visc @ 100°C	cSt	ASTM D445		13.9	13.5	13.3

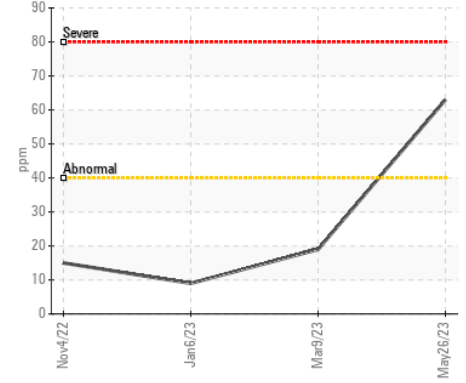
▲ Non-ferrous Metals



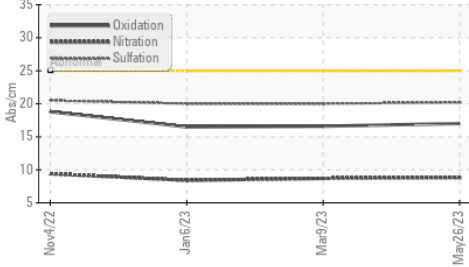
Iron (ppm)



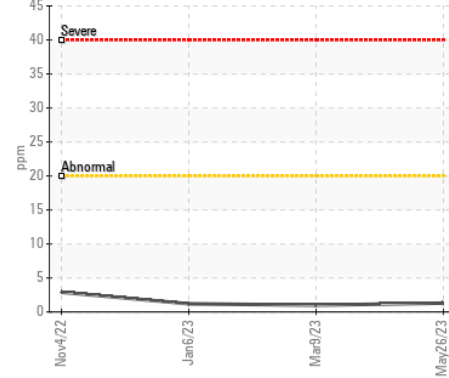
▲ Lead (ppm)



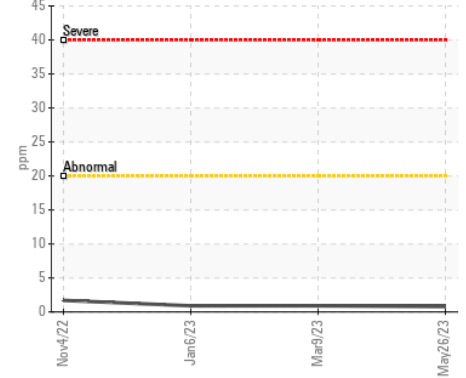
FT-IR (Direct Trend)



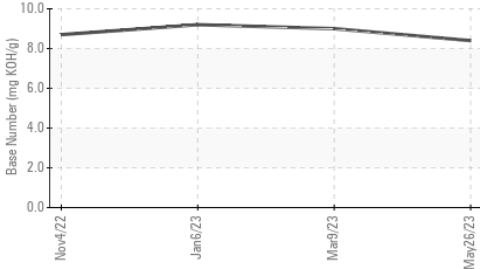
Aluminum (ppm)



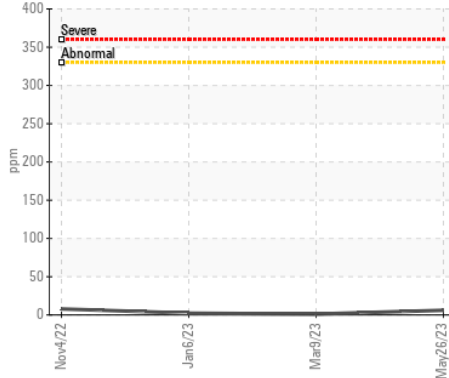
Chromium (ppm)



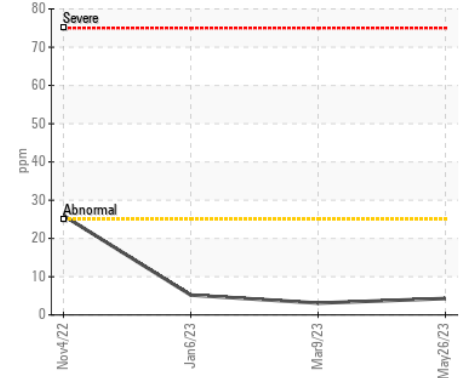
Base Number



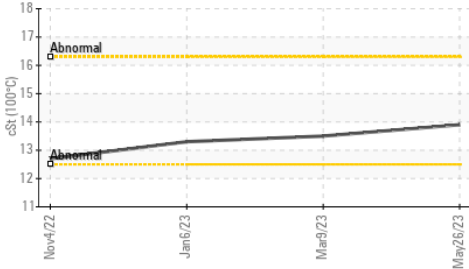
Copper (ppm)



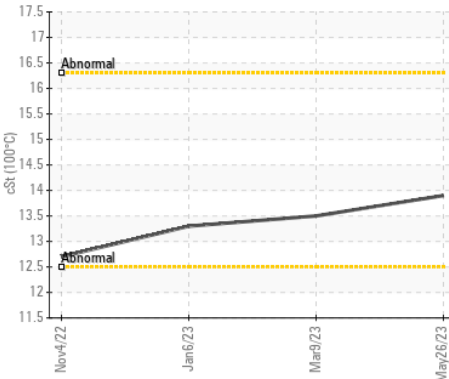
Silicon (ppm)



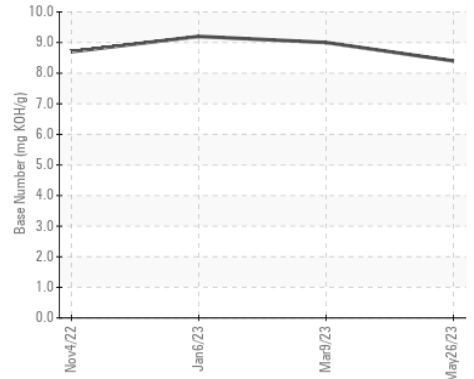
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0026425 **Received** : 04 Aug 2023
Lab Number : 05916655 **Tested** : 07 Aug 2023
Unique Number : 10588569 **Diagnosed** : 07 Aug 2023 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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 MERCERSBURG, PA
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 Contact: RYAN LEASURE
 ryanleasure@yahoo.com
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 F:

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)