



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		DC0026433	DC0026426	DC0026425
Sample Date		Client Info		03 Oct 2023	27 Jul 2023	26 May 2023
Machine Age	hrs	Client Info		3914	3232	2603
Oil Age	hrs	Client Info		500	600	662
Filter Age	hrs	Client Info		500	600	662
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

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

Iron	ppm	ASTM D5185m	>100	18	14	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	1	1
Lead	ppm	ASTM D5185m	>40	▲ 113	▲ 75	▲ 63
Copper	ppm	ASTM D5185m	>330	2	4	6
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	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.

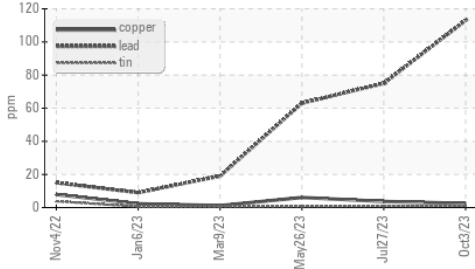
Silicon	ppm	ASTM D5185m	>25	4	4	4
Potassium	ppm	ASTM D5185m	>20	1	1	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.5	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.7	20.2
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

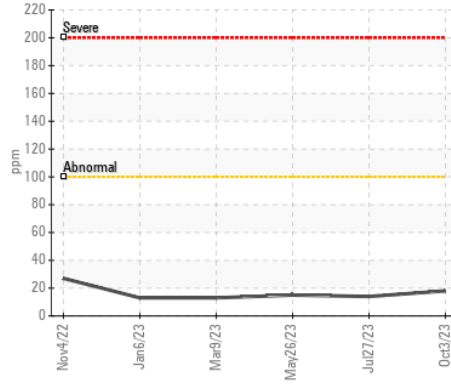
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	2	1
Boron	ppm	ASTM D5185m		4	5	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		57	62	66
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		929	927	1005
Calcium	ppm	ASTM D5185m		1326	1298	1388
Phosphorus	ppm	ASTM D5185m		1056	1059	1127
Zinc	ppm	ASTM D5185m		1323	1314	1442
Sulfur	ppm	ASTM D5185m		3195	3237	3989
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	16.2	17.0
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	8.1	8.4
Visc @ 100°C	cSt	ASTM D445		14.4	14.1	13.9

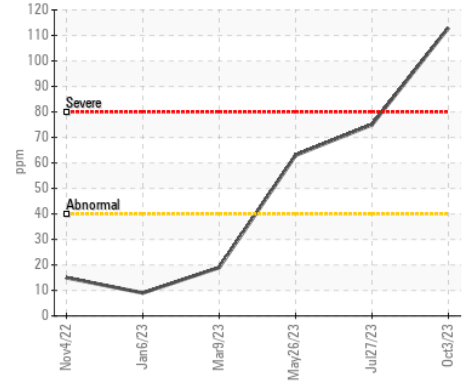
▲ Non-ferrous Metals



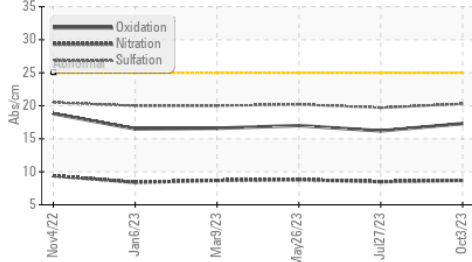
Iron (ppm)



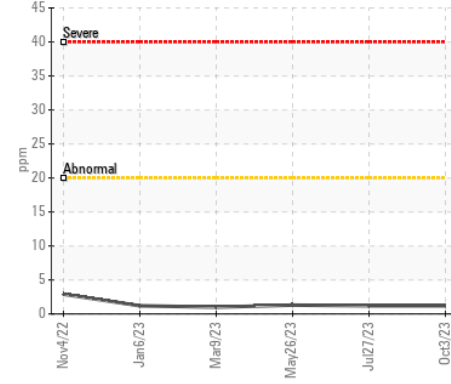
▲ Lead (ppm)



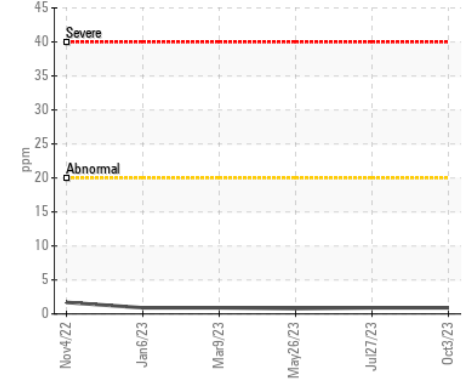
FT-IR (Direct Trend)



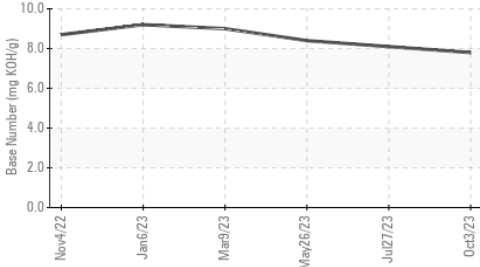
Aluminum (ppm)



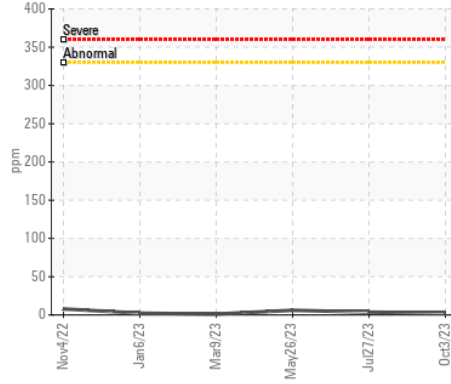
Chromium (ppm)



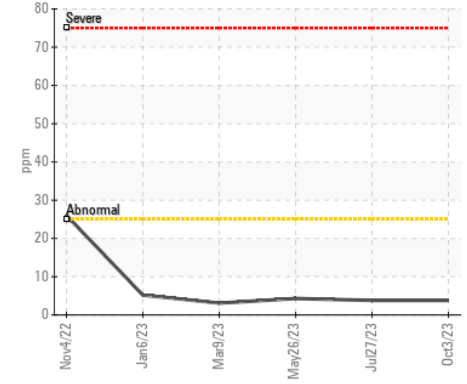
Base Number



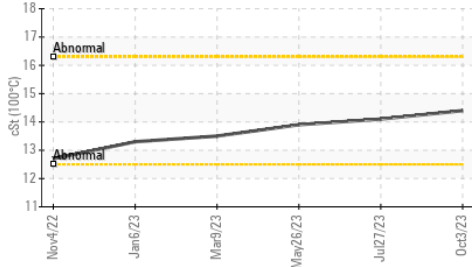
Copper (ppm)



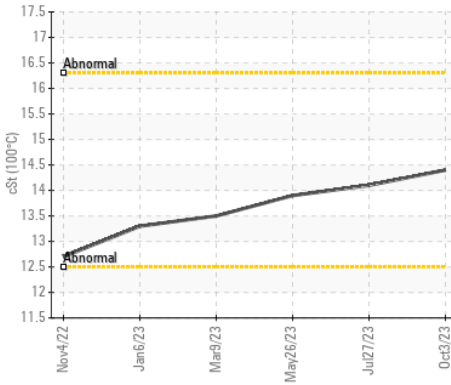
Silicon (ppm)



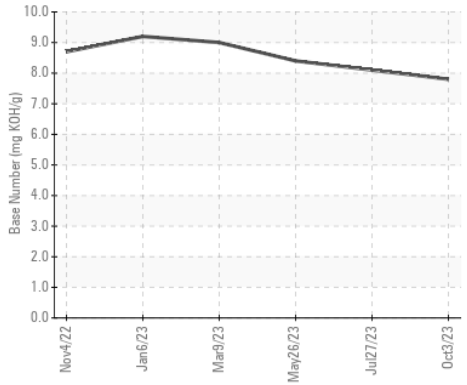
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0026433 **Received** : 12 Oct 2023
Lab Number : 05977542 **Tested** : 13 Oct 2023
Unique Number : 10689492 **Diagnosed** : 16 Oct 2023 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

MERCER VU FARMS
 12275 MT PLEASANT RD
 MERCERSBURG, PA
 US 17236
 Contact: RYAN LEASURE
 ryanleasure@yahoo.com
 T: (717)404-5913
 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)