



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
MONAGHAN MUSHROOMS
Machine Id
DOOSAN DL480-7
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0935791	WC0890750	WC0713546
Sample Date		Client Info		24 May 2024	04 Mar 2024	19 Aug 2022
Machine Age	hrs	Client Info		4862	0	1500
Oil Age	hrs	Client Info		0	0	600
Filter Age	hrs	Client Info		0	0	600
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	4	2	5
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	3	1
Lead	ppm	ASTM D5185(m)	>40	0	0	3
Copper	ppm	ASTM D5185(m)	>30	1	1	90
Tin	ppm	ASTM D5185(m)	>15	0	0	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

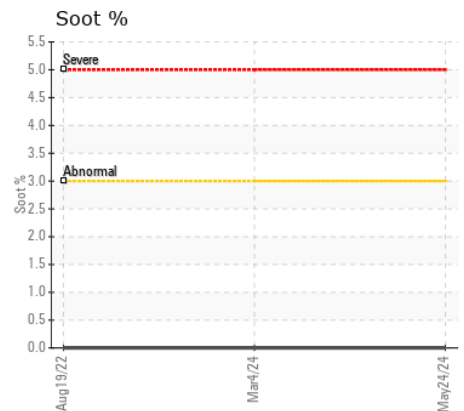
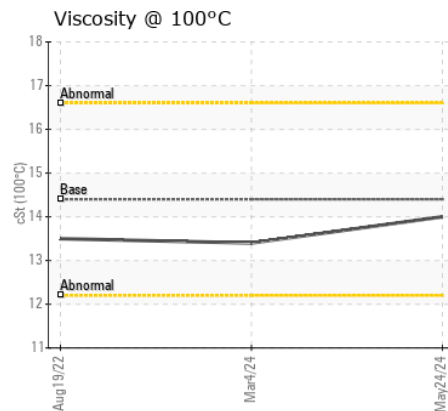
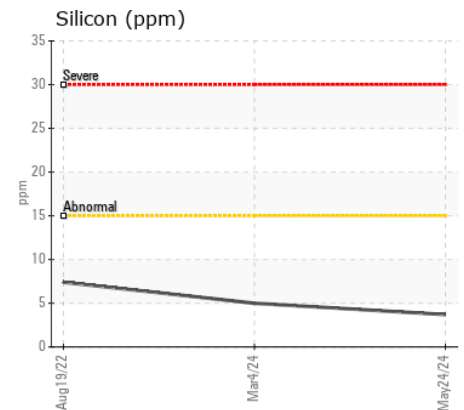
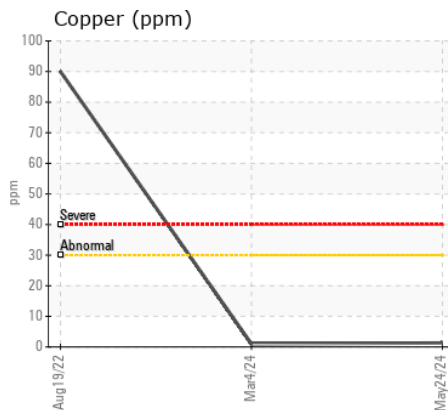
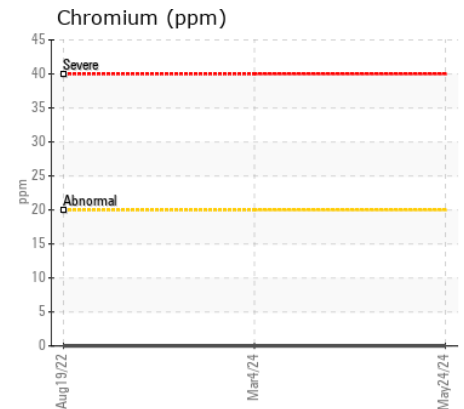
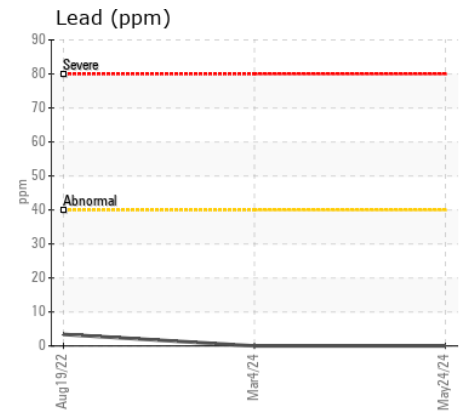
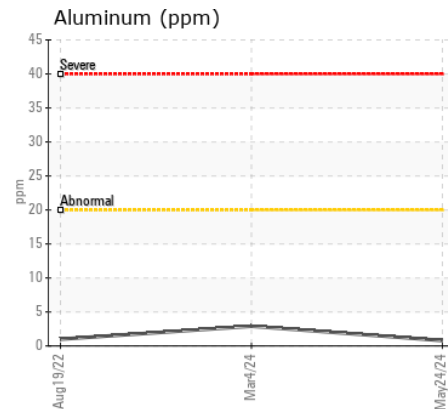
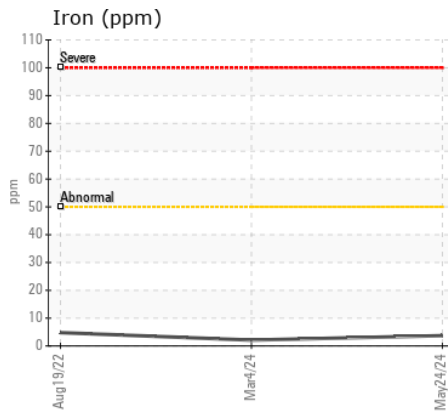
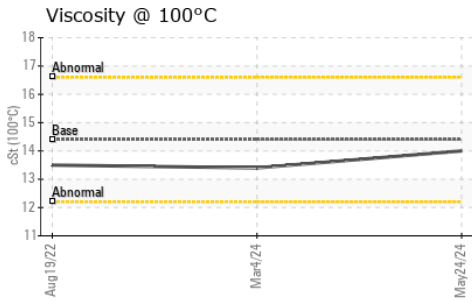
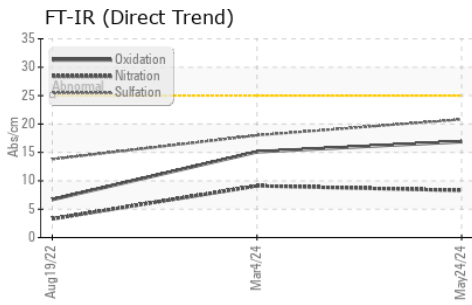
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	4	5	7
Potassium	ppm	ASTM D5185(m)	>20	6	1	0
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.3	9.1	3.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	18.0	13.8
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>158	2	2	2
Boron	ppm	ASTM D5185(m)	250	140	106	27
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	16	117	37
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	92	631	503
Calcium	ppm	ASTM D5185(m)	3000	2139	1309	1726
Phosphorus	ppm	ASTM D5185(m)	1150	986	734	722
Zinc	ppm	ASTM D5185(m)	1350	1131	814	870
Sulfur	ppm	ASTM D5185(m)	4250	2992	2915	2121
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.9	15.1	6.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.0	13.4	13.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0935791 **Received** : 05 Jun 2024
Lab Number : 02639756 **Tested** : 05 Jun 2024
Unique Number : 5788918 **Diagnosed** : 05 Jun 2024 - Wes Davis
Test Package : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.