



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		WC0890750	WC0713546	---
Sample Date		Client Info		04 Mar 2024	19 Aug 2022	---
Machine Age	hrs	Client Info		0	1500	---
Oil Age	hrs	Client Info		0	600	---
Filter Age	hrs	Client Info		0	600	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

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

CONTAMINATION

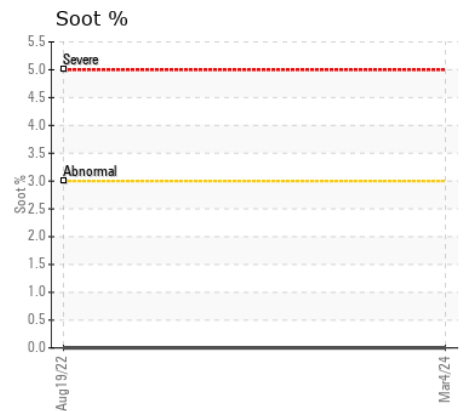
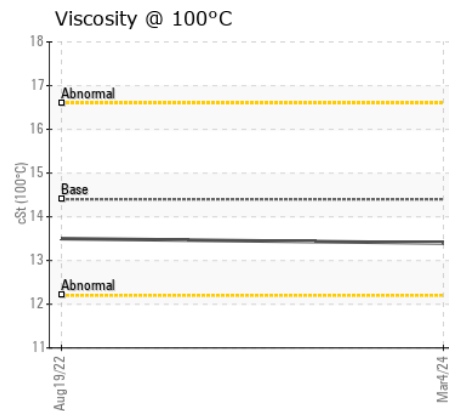
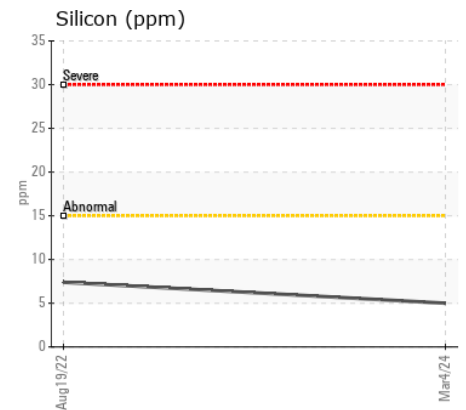
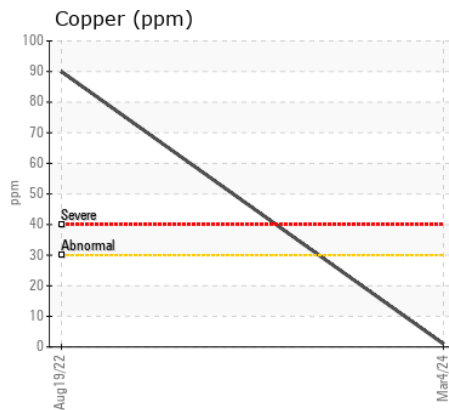
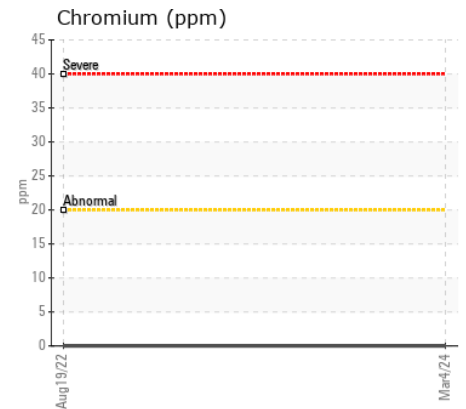
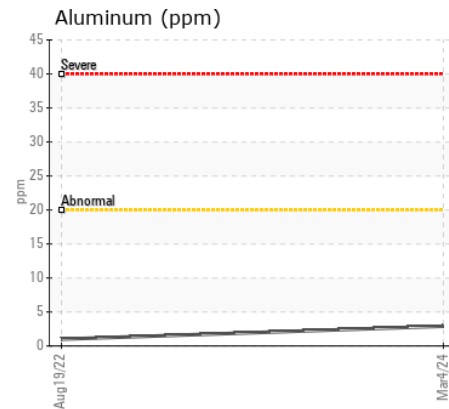
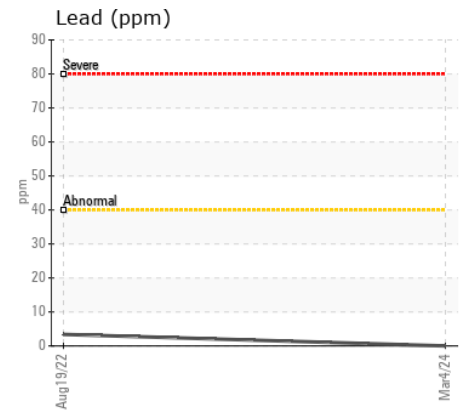
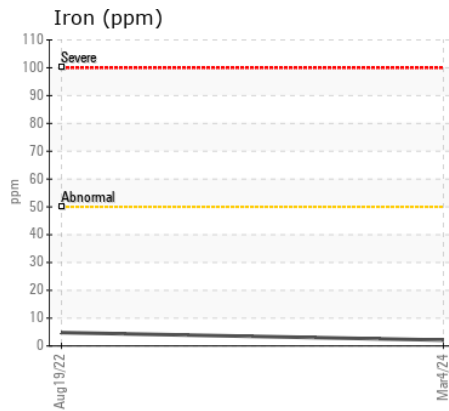
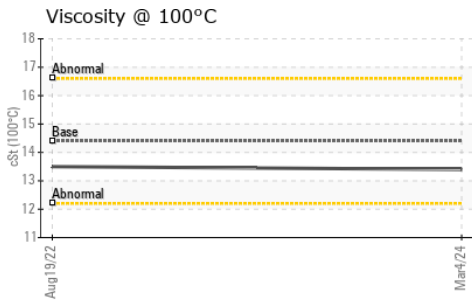
There is no indication of any contamination in the oil.

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

FLUID CONDITION

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

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0890750 **Received** : 05 Mar 2024
Lab Number : 02619878 **Tested** : 05 Mar 2024
Unique Number : 5736988 **Diagnosed** : 05 Mar 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.