



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[PMOAS2747306]
 Machine Id
6D24-302687 20A02330-5 - LIONS MANOR (S/N 2057502)
 Component
Diesel Engine
 Fluid
NAPA Motor Oil 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0028712	DC0023240	DC0016984
Sample Date		Client Info		11 Mar 2024	18 Jan 2023	15 Dec 2021
Machine Age	hrs	Client Info		857	818	790
Oil Age	hrs	Client Info		39	27	0
Filter Age	hrs	Client Info		39	27	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<1	1	2
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	0	<1
Lead	ppm	ASTM D5185m	>40	3	5	3
Copper	ppm	ASTM D5185m	>330	9	8	9
Tin	ppm	ASTM D5185m	>15	1	<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

CONTAMINATION

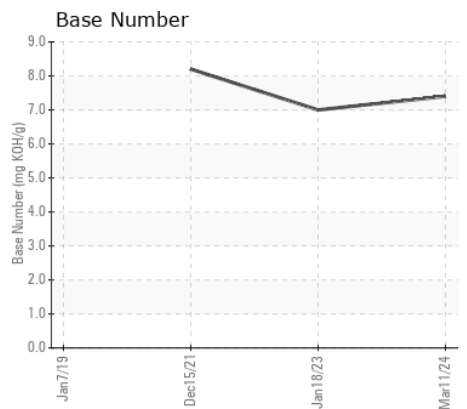
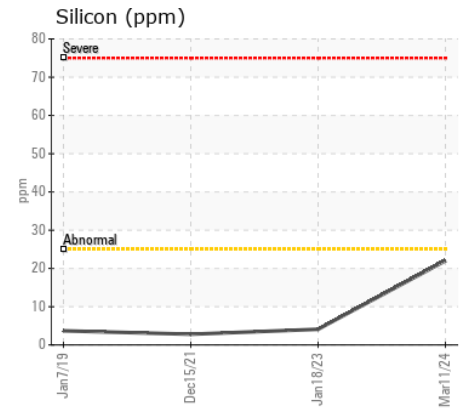
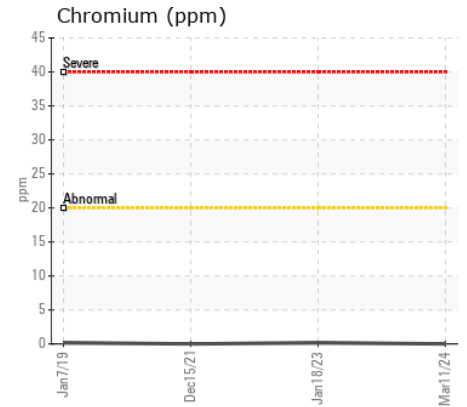
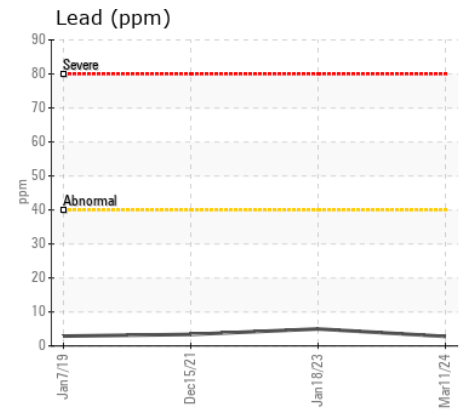
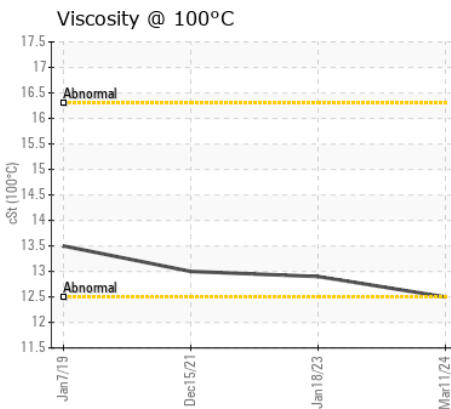
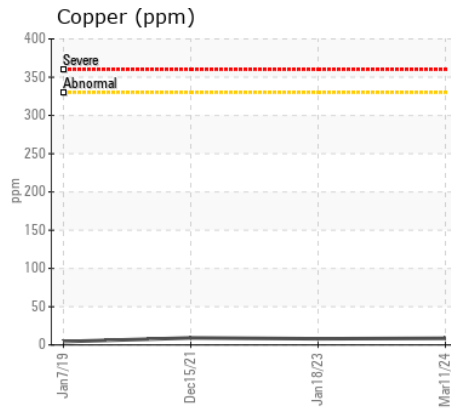
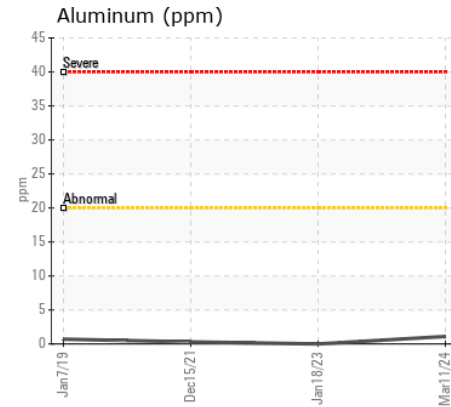
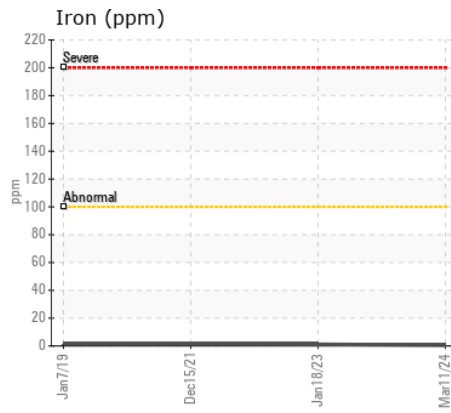
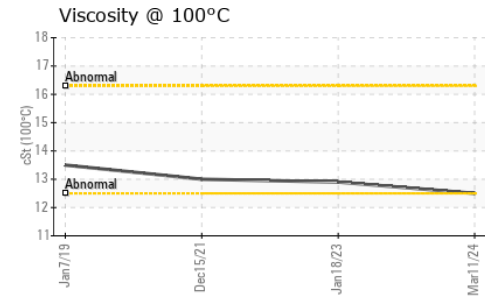
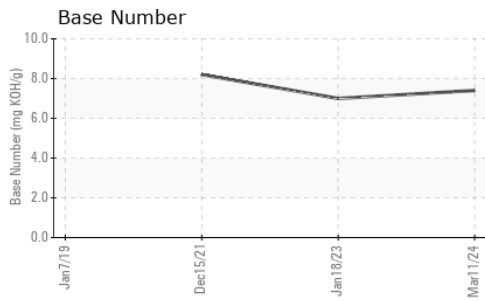
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	22	4	3
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	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	6.1	7.3	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.6	16.6	16
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		0	2	4
Boron	ppm	ASTM D5185m		19	64	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		24	74	4
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		31	21	71
Calcium	ppm	ASTM D5185m		2139	1939	2147
Phosphorus	ppm	ASTM D5185m		897	906	891
Zinc	ppm	ASTM D5185m		1047	1064	958
Sulfur	ppm	ASTM D5185m		4114	3422	3144
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.1	12.1	9.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	7.0	8.2
Visc @ 100°C	cSt	ASTM D445		12.5	12.9	13.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : DC0028712

Lab Number : 06124234

Unique Number : 10938385

Test Package : MOB 1 (Additional Tests: TBN)

Received : 20 Mar 2024

Tested : 21 Mar 2024

Diagnosed : 23 Mar 2024 - Don Baldrige

KELLY GENERATOR & EQUIPMENT INC

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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)