



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
BELL B45 B93A63103408878
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		BE0015305	BE0015304	---
Sample Date		Client Info		22 Jun 2024	15 Apr 2024	---
Machine Age	hrs	Client Info		967	515	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>79	13	---	---
Iron	ppm	ASTM D5185m	>100	29	34	---
Chromium	ppm	ASTM D5185m	>20	5	8	---
Nickel	ppm	ASTM D5185m	>4	<1	2	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	11	29	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	116	▲ 390	---
Tin	ppm	ASTM D5185m	>15	<1	3	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

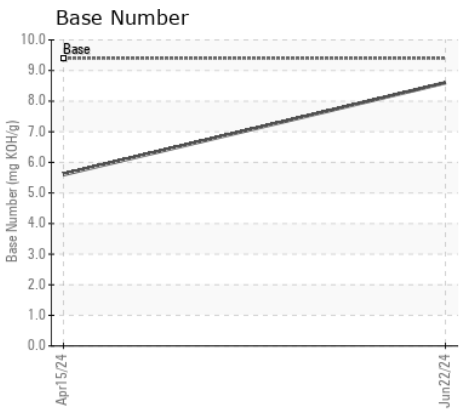
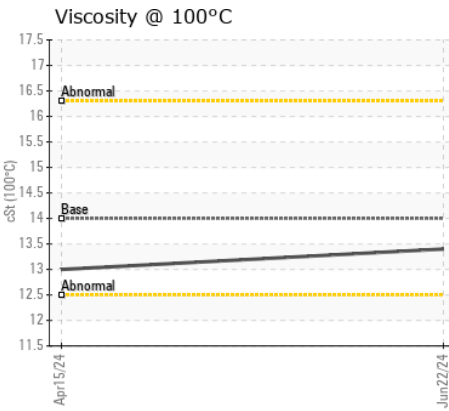
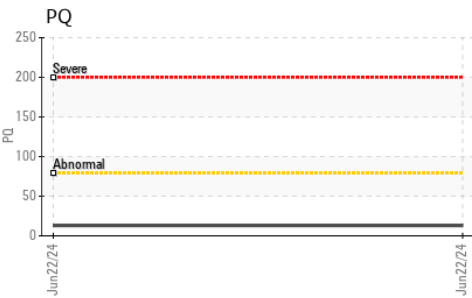
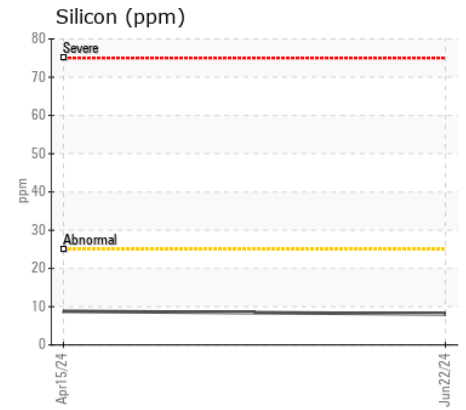
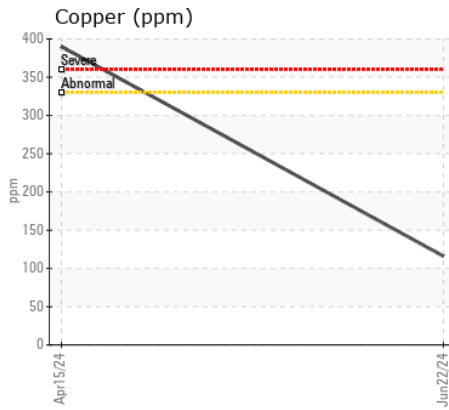
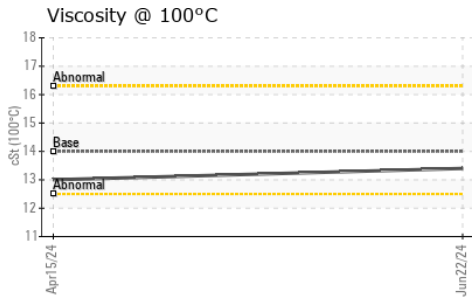
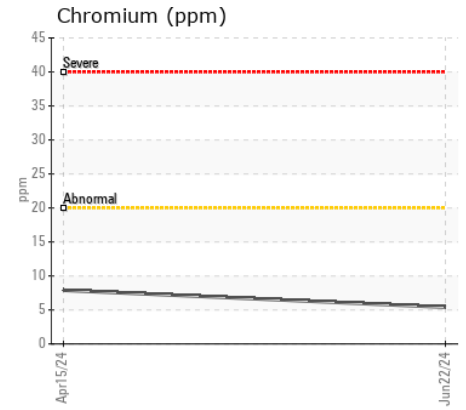
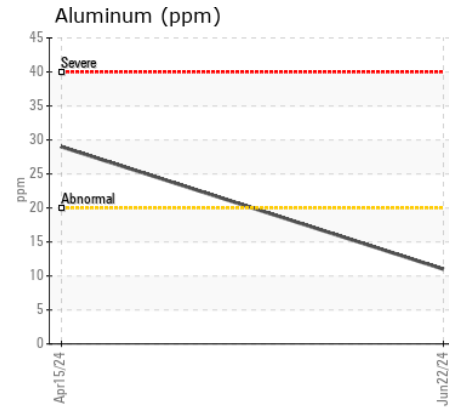
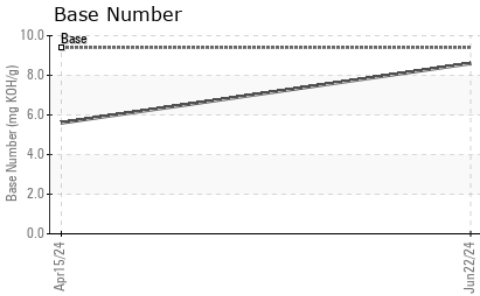
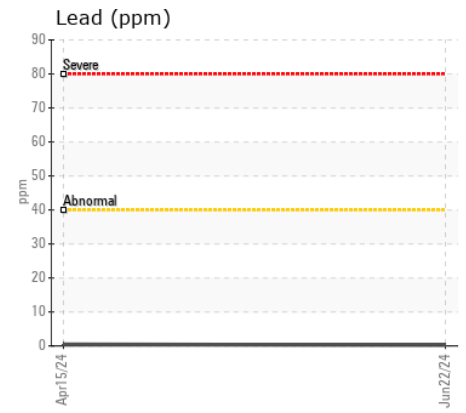
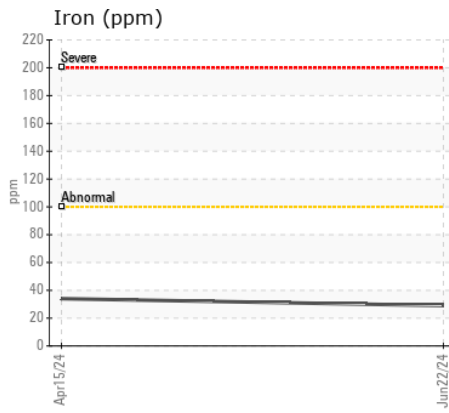
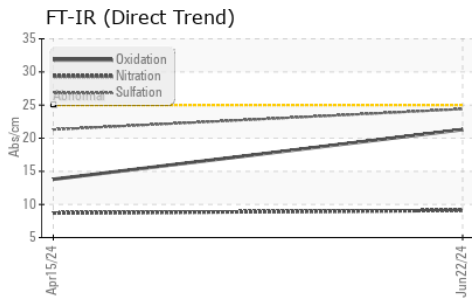
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	9	---
Potassium	ppm	ASTM D5185m	>20	19	77	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	21.3	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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		6	2	---
Boron	ppm	ASTM D5185m	0	16	2	---
Barium	ppm	ASTM D5185m	0	0	1	---
Molybdenum	ppm	ASTM D5185m	0	45	5	---
Manganese	ppm	ASTM D5185m		1	3	---
Magnesium	ppm	ASTM D5185m	0	480	50	---
Calcium	ppm	ASTM D5185m		1893	2296	---
Phosphorus	ppm	ASTM D5185m		1145	795	---
Zinc	ppm	ASTM D5185m		1374	968	---
Sulfur	ppm	ASTM D5185m		3524	2899	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	13.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.6	5.6	---
Visc @ 100°C	cSt	ASTM D445	14	13.4	13.0	---
Viscosity Index (VI)	Scale	ASTM D2270	129	134	141	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : BE0015305
Lab Number : 06222241
Unique Number : 11100438
Test Package : MOBCE

Received : 27 Jun 2024
Tested : 01 Jul 2024
Diagnosed : 01 Jul 2024 - Jonathan Hester

National Equipment Dealers LLC NE
 215 Woodside Drive
 Lexington, NC
 US 27292
 Contact: Steven Gawthrop
 sgawthrop@nedalers.com

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)

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F: