



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
46832
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

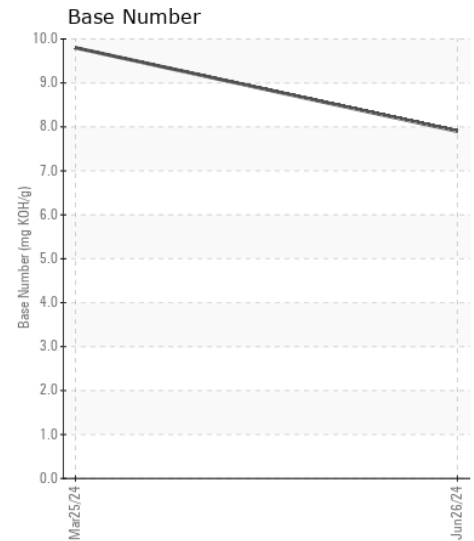
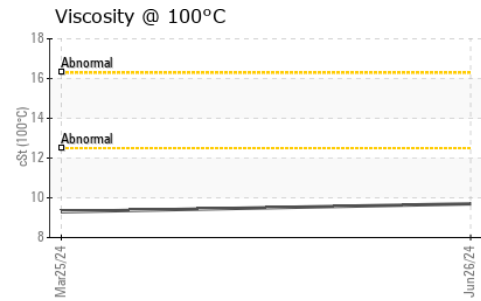
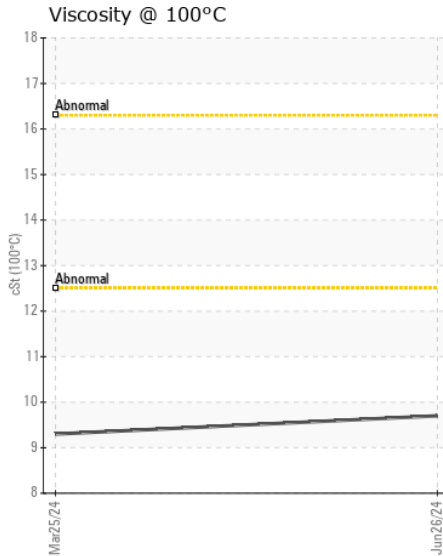
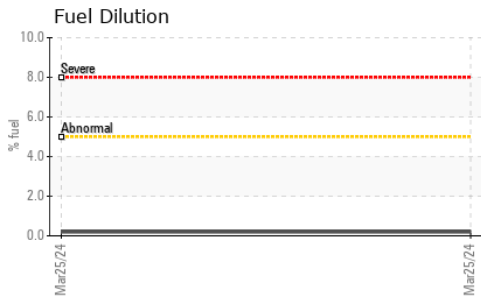
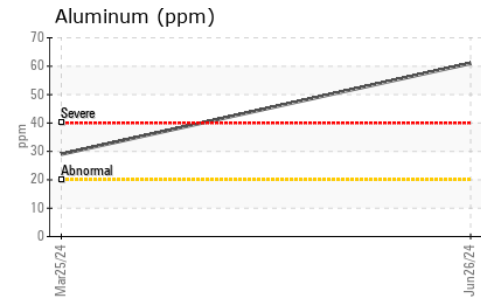
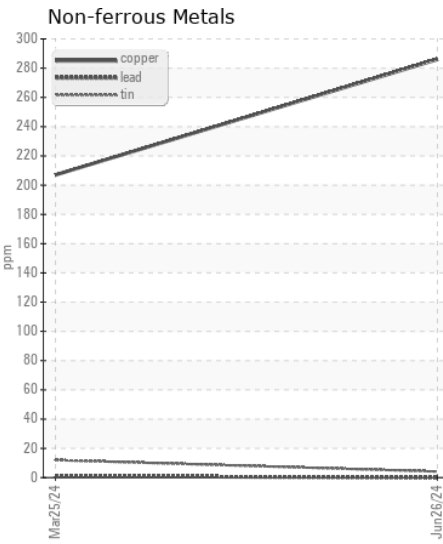
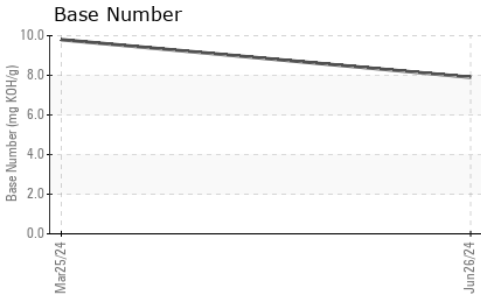
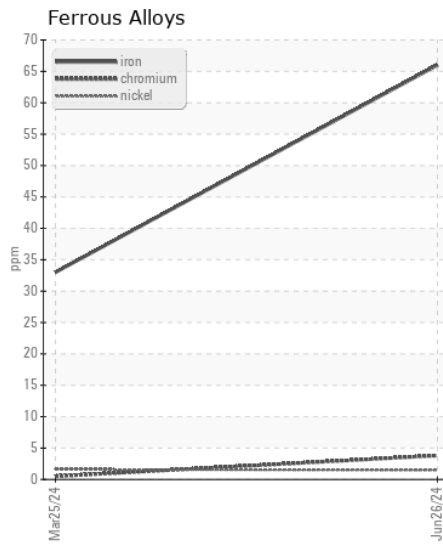
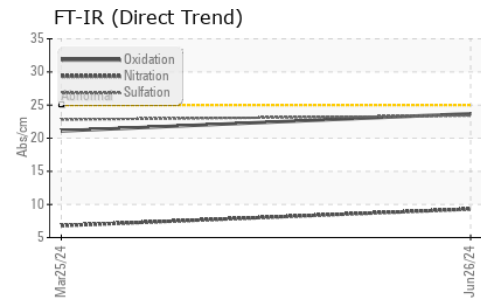
CONTAMINATION

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0936729	WC0915970	---
Sample Date		Client Info		26 Jun 2024	25 Mar 2024	---
Machine Age	mls	Client Info		22186	7456	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ATTENTION	---
Iron	ppm	ASTM D5185m	>100	66	33	---
Chromium	ppm	ASTM D5185m	>20	4	<1	---
Nickel	ppm	ASTM D5185m	>4	2	2	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	1	<1	---
Aluminum	ppm	ASTM D5185m	>20	61	29	---
Lead	ppm	ASTM D5185m	>40	0	1	---
Copper	ppm	ASTM D5185m	>330	286	207	---
Tin	ppm	ASTM D5185m	>15	4	12	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	7	6	---
Potassium	ppm	ASTM D5185m	>20	189	103	---
Fuel	%	ASTM D3524	>5	<1.0	0.2	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	9.3	6.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	22.8	---
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	---
Sodium	ppm	ASTM D5185m	>118	4	5	---
Boron	ppm	ASTM D5185m		42	52	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		52	40	---
Manganese	ppm	ASTM D5185m		5	3	---
Magnesium	ppm	ASTM D5185m		499	533	---
Calcium	ppm	ASTM D5185m		1719	1813	---
Phosphorus	ppm	ASTM D5185m		713	806	---
Zinc	ppm	ASTM D5185m		879	899	---
Sulfur	ppm	ASTM D5185m		1851	2731	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.7	21.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	9.8	---
Visc @ 100°C	cSt	ASTM D445		9.7	9.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936729 **Received** : 02 Jul 2024
Lab Number : 06226060 **Tested** : 03 Jul 2024
Unique Number : 11109553 **Diagnosed** : 03 Jul 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, KV40)

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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)