



# OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>MARGINAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**LC505**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL 15W40 (--- QTS)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0916011</b>	WC0673050	WC0634565
Sample Date		Client Info		<b>09 Apr 2024</b>	27 Jun 2022	20 Jan 2022
Machine Age	mls	Client Info		<b>302484</b>	0	0
Oil Age	mls	Client Info		<b>0</b>	0	25000
Filter Age	mls	Client Info		<b>0</b>	0	25000
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>100	<b>▲ 171</b>	8	22
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	3	7
Lead	ppm	ASTM D5185m	>40	<b>10</b>	1	5
Copper	ppm	ASTM D5185m	>330	<b>2</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

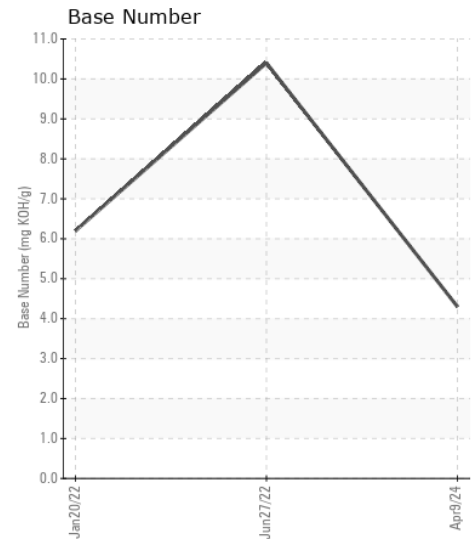
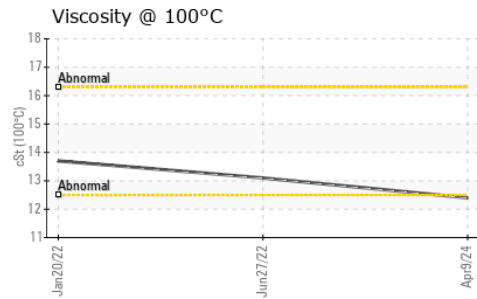
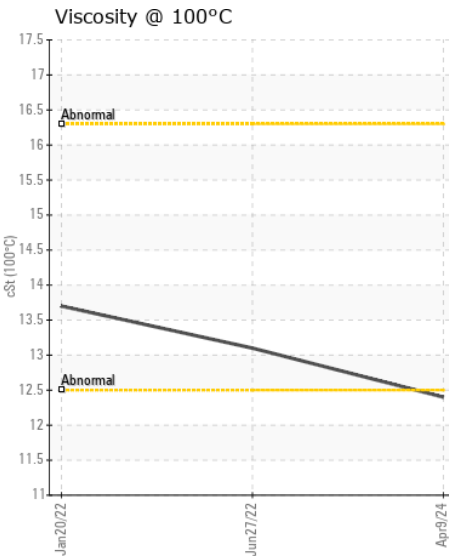
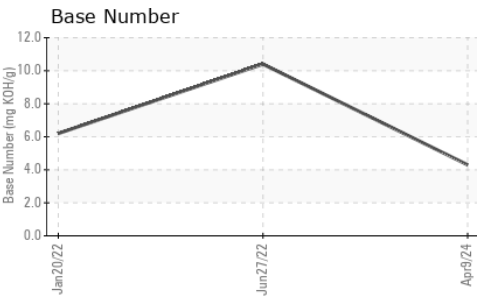
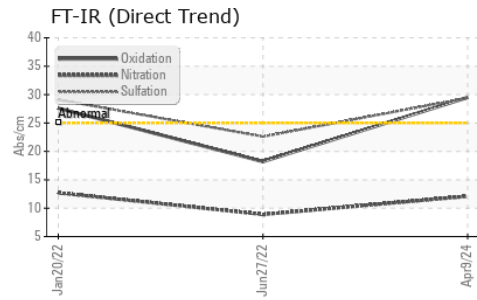
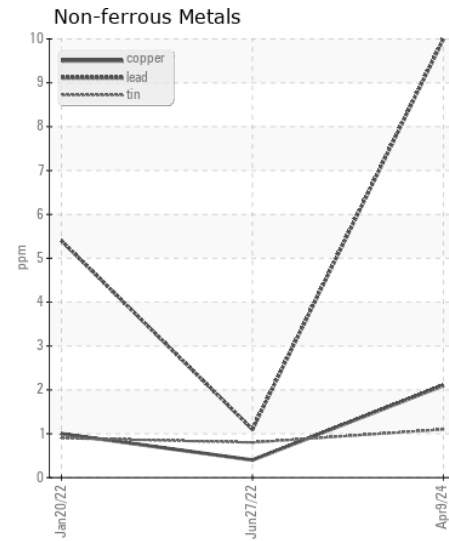
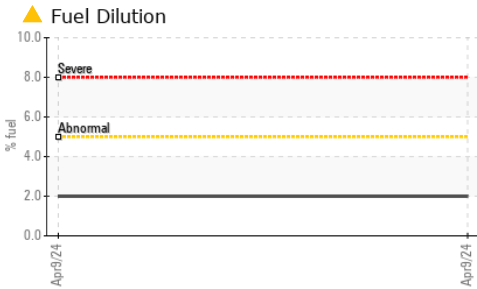
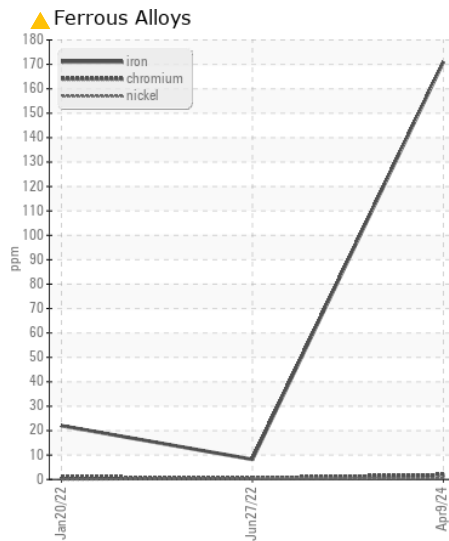
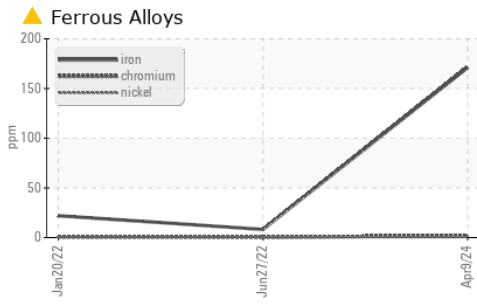
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>15</b>	5	15
Fuel	%	ASTM D3524	>5	<b>▲ 2.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.1</b>	8.9	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.4</b>	22.6	29.1
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>118	<b>1</b>	2	<1
Boron	ppm	ASTM D5185m		<b>43</b>	6	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>74</b>	61	63
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>816</b>	977	1045
Calcium	ppm	ASTM D5185m		<b>1193</b>	1168	1196
Phosphorus	ppm	ASTM D5185m		<b>992</b>	1111	1041
Zinc	ppm	ASTM D5185m		<b>1233</b>	1313	1266
Sulfur	ppm	ASTM D5185m		<b>3236</b>	4089	2729
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>29.5</b>	18.2	27.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.3</b>	10.4	6.2
Visc @ 100°C	cSt	ASTM D445		<b>12.4</b>	13.1	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0916011 **Received** : 19 Apr 2024  
**Lab Number** : 06155156 **Tested** : 24 Apr 2024  
**Unique Number** : 10990579 **Diagnosed** : 24 Apr 2024 - Sean Felton  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

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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)