



# OIL ANALYSIS REPORT

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



Area  
**Contracting**  
Machine Id  
**5512 5512**  
Component  
**Left Final Drive**  
Fluid  
**MOBIL MOBILUBE HD 85W140 (2 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0918761</b>	WC0819187	WC0770918
Sample Date		Client Info		<b>22 Apr 2024</b>	09 Aug 2023	01 Mar 2023
Machine Age	hrs	Client Info		<b>8132</b>	7620	6974
Oil Age	hrs	Client Info		<b>1158</b>	646	0
Filter Age	hrs	Client Info		<b>1158</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>750	<b>310</b>	221	156
Chromium	ppm	ASTM D5185m	>9	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>40	<b>13</b>	15	13
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

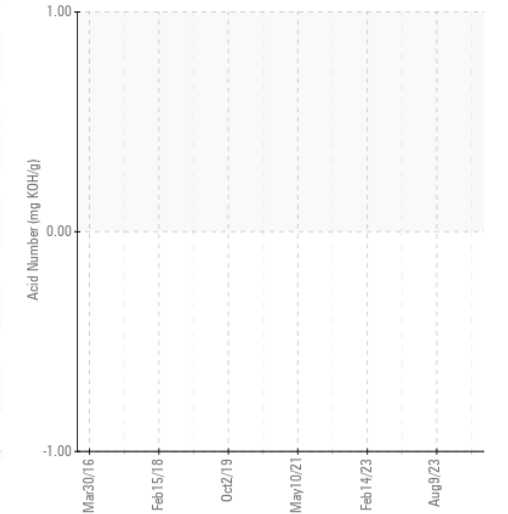
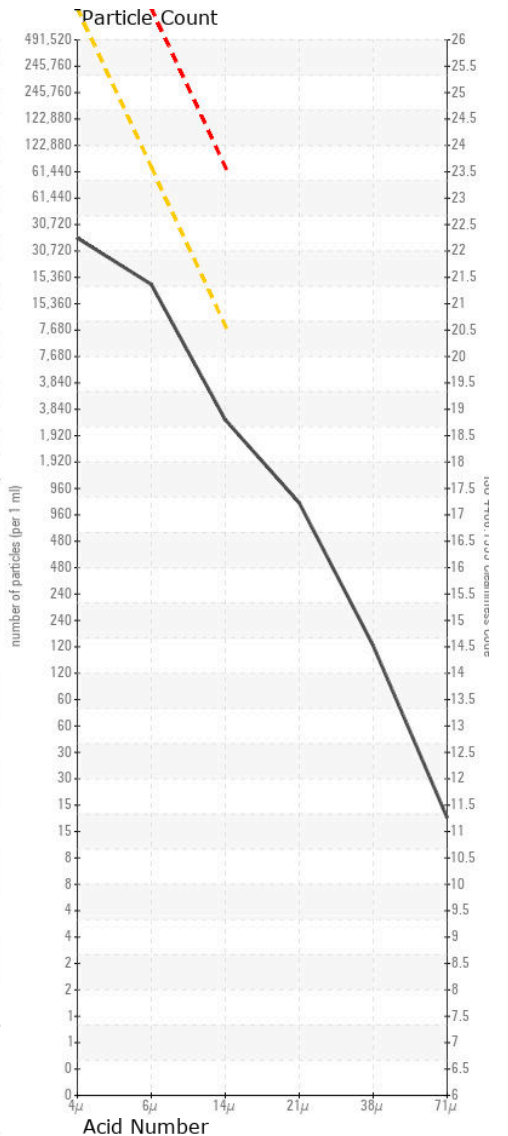
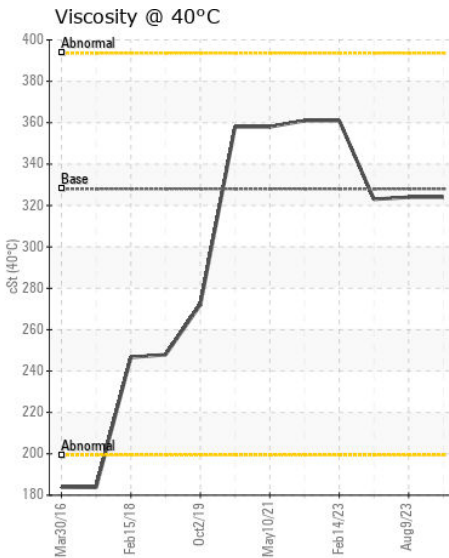
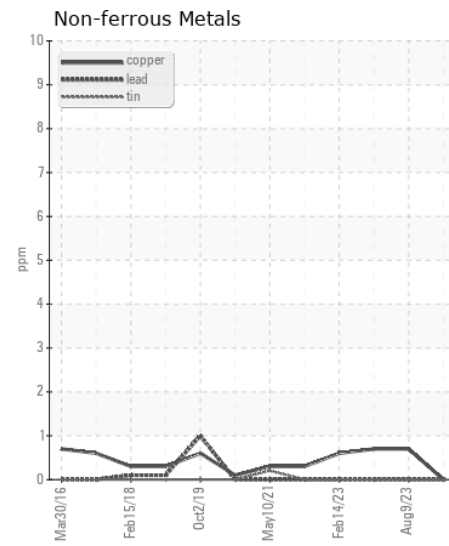
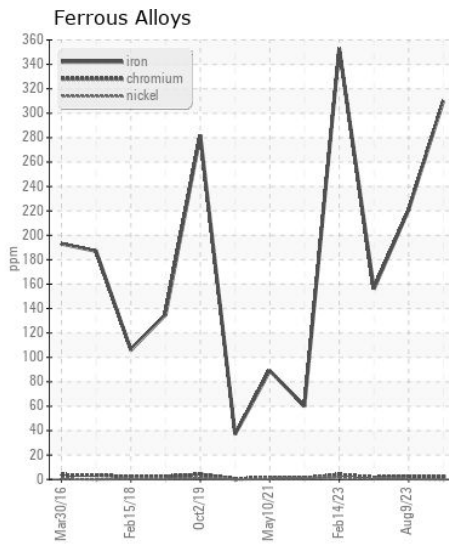
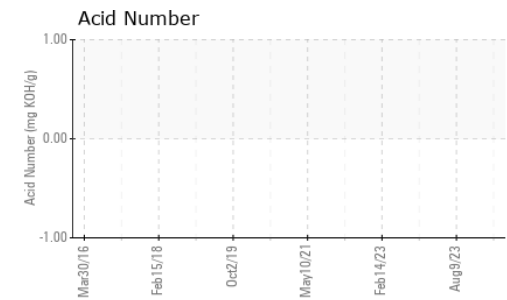
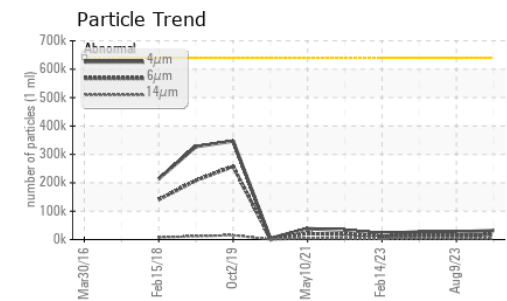
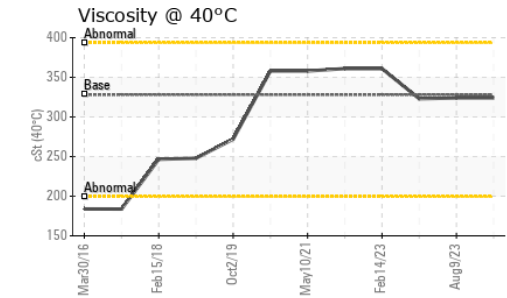
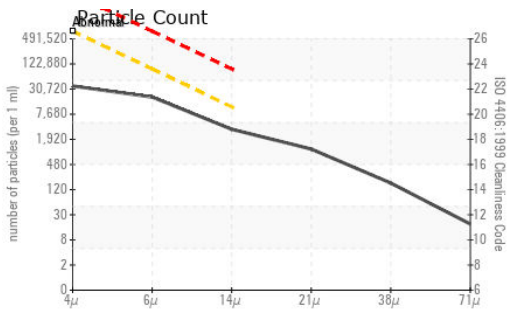
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>62</b>	58	43
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	3
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>640000	<b>31527</b>	27169	27065
Particles >6µm		ASTM D7647	>80000	<b>17175</b>	14800	14744
Particles >14µm		ASTM D7647	>10000	<b>2923</b>	2519	2509
Particles >21µm		ASTM D7647	>2500	<b>985</b>	848	845
Particles >38µm		ASTM D7647	>640	<b>152</b>	131	130
Particles >71µm		ASTM D7647	>160	<b>16</b>	13	13
Oil Cleanliness		ISO 4406 (c)	>26/23/20	<b>22/21/19</b>	22/21/19	22/21/19
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	LIGHT
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	>0.075	<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	>51	<b>2</b>	2	0
Boron	ppm	ASTM D5185m		<b>105</b>	125	140
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>2</b>	2	2
Manganese	ppm	ASTM D5185m		<b>2</b>	3	2
Magnesium	ppm	ASTM D5185m		<b>12</b>	11	13
Calcium	ppm	ASTM D5185m		<b>160</b>	44	45
Phosphorus	ppm	ASTM D5185m		<b>901</b>	870	800
Zinc	ppm	ASTM D5185m		<b>78</b>	33	44
Sulfur	ppm	ASTM D5185m		<b>28639</b>	25056	23994
Visc @ 40°C	cSt	ASTM D445	328	<b>324</b>	324	323



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0918761 **Received** : 24 Apr 2024  
**Lab Number** : 06158958 **Tested** : 25 Apr 2024  
**Unique Number** : 10994381 **Diagnosed** : 25 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PrtCount )

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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