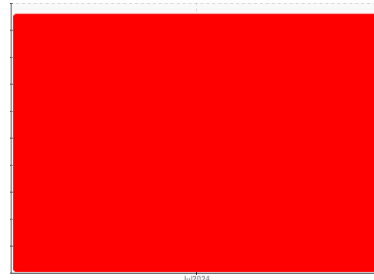




# PROBLEM SUMMARY

Sample Rating Trend

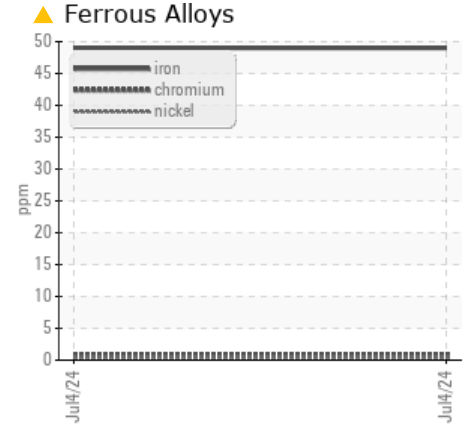
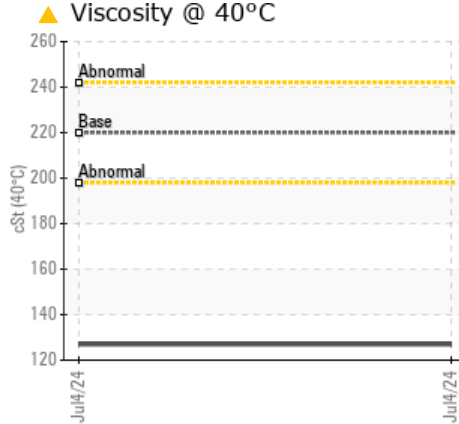
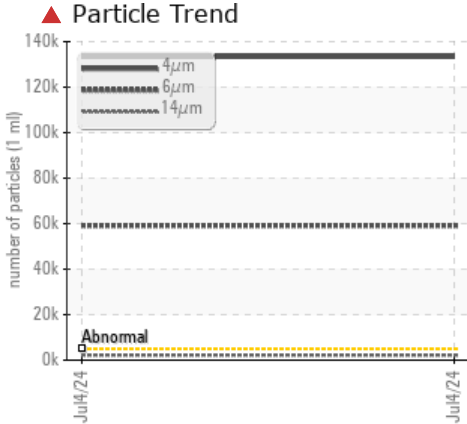


ISO



Machine Id  
**PRESS #31 (S/N 10-4440)**  
Component  
**Circulating Oil**  
Fluid  
**MOBIL SPARTAN EP 220 (100 GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ 49	---	---
Particles >4µm		ASTM D7647	>5000	▲ 133347	---	---
Particles >6µm		ASTM D7647	>1300	▲ 59101	---	---
Particles >14µm		ASTM D7647	>160	▲ 2174	---	---
Particles >21µm		ASTM D7647	>40	▲ 379	---	---
Particles >71µm		ASTM D7647	>3	▲ 6	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/23/18	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 127	---	---

Customer Id: DYNLIL  
Sample No.: WC0862411  
Lab Number: 02646485  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Dirt Access	---	---	?	We advise that you check all areas where contaminants can enter the system.

## HISTORICAL DIAGNOSIS



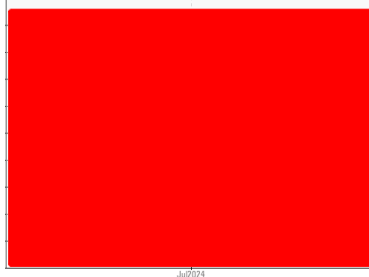
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id  
**PRESS #31 (S/N 10-4440)**  
 Component  
**Circulating Oil**  
 Fluid  
**MOBIL SPARTAN EP 220 (100 GAL)**



## DIAGNOSIS

### ▲ Recommendation

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

### ▲ Wear

Iron ppm levels are abnormal.

### ▲ Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

### ▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0862411</b>	---	---
Sample Date	Client Info		<b>04 Jul 2024</b>	---	---
Machine Age	yrs	Client Info	<b>0</b>	---	---
Oil Age	yrs	Client Info	<b>2</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>24</b>	---	---
Iron	ppm	ASTM D5185(m) >20	<b>▲ 49</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m) >20	<b>1</b>	---	---
Copper	ppm	ASTM D5185(m) >20	<b>16</b>	---	---
Tin	ppm	ASTM D5185(m) >20	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

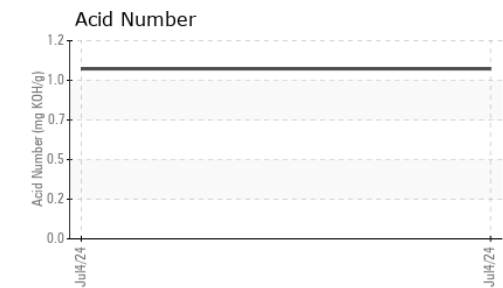
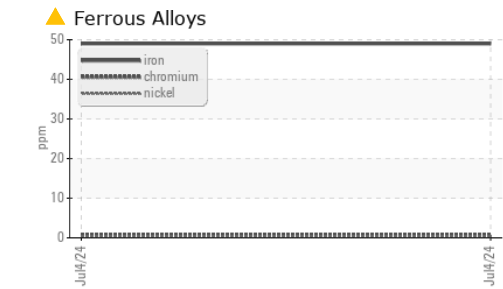
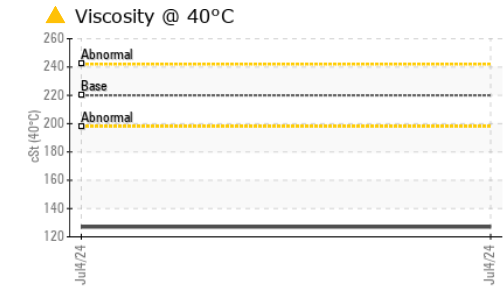
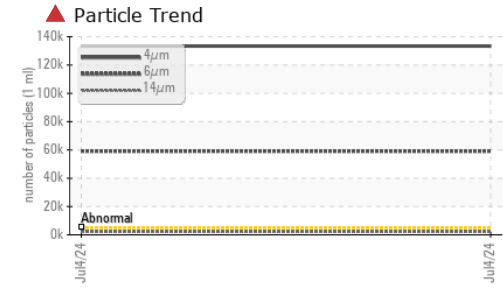
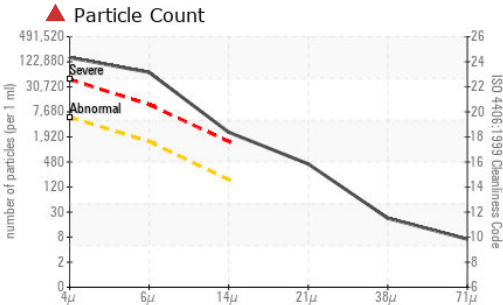
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>34</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>14</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>7</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>1219</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>511</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>480</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>4945</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>4</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	---	---



# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 133347	---	---
Particles >6µm	ASTM D7647	>1300	▲ 59101	---	---
Particles >14µm	ASTM D7647	>160	▲ 2174	---	---
Particles >21µm	ASTM D7647	>40	▲ 379	---	---
Particles >38µm	ASTM D7647	>10	● 19	---	---
Particles >71µm	ASTM D7647	>3	▲ 6	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/23/18	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.03	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	NEG	---	---	
Free Water	scalar	Visual*	NEG	---	---	

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 127	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0862411  
**Lab Number** : 02646485  
**Unique Number** : 5812037  
**Test Package** : IND 2 ( Additional Tests: PQ, TAN Man )

**DYNAMIC FLUID PRODUCTS LTD.**  
 40 CEDAR STREET  
 TILLSONBURG, ON  
 CA N4G 4H5  
 Contact: Sean Barrett  
 sbarrett@dynamicfluid.com  
 T: (519)688-0337  
 F: (519)688-0893

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.