



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**Mobile Fleet**  
Machine Id  
**339 339**  
Component  
**Left Inner Final Drive**  
Fluid  
**SHELL SPIRAX S6 AXME 75W90 (4 GAL)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0939225</b>	WC0630596	WC0434069
Sample Date		Client Info		<b>24 May 2024</b>	10 Nov 2021	03 Jan 2020
Machine Age	hrs	Client Info		<b>10366</b>	9451	8269
Oil Age	hrs	Client Info		<b>928</b>	2286	1104
Filter Age	hrs	Client Info		<b>928</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Not Changed</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>750	<b>88</b>	95	96
Chromium	ppm	ASTM D5185m	>9	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	4	1
Aluminum	ppm	ASTM D5185m	>40	<b>5</b>	5	7
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	▲ MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

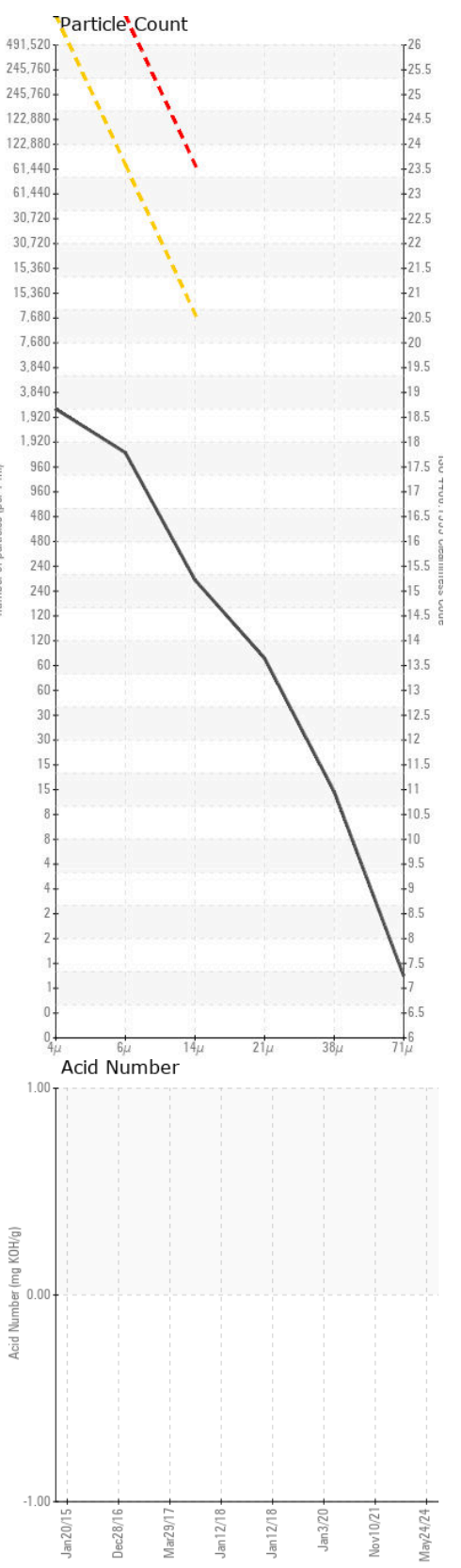
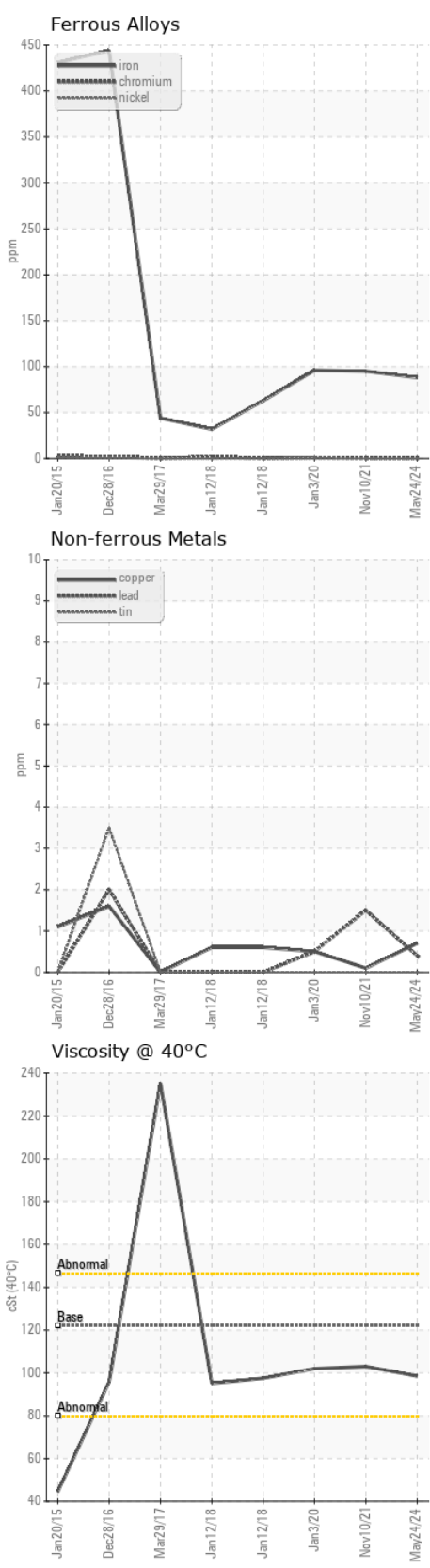
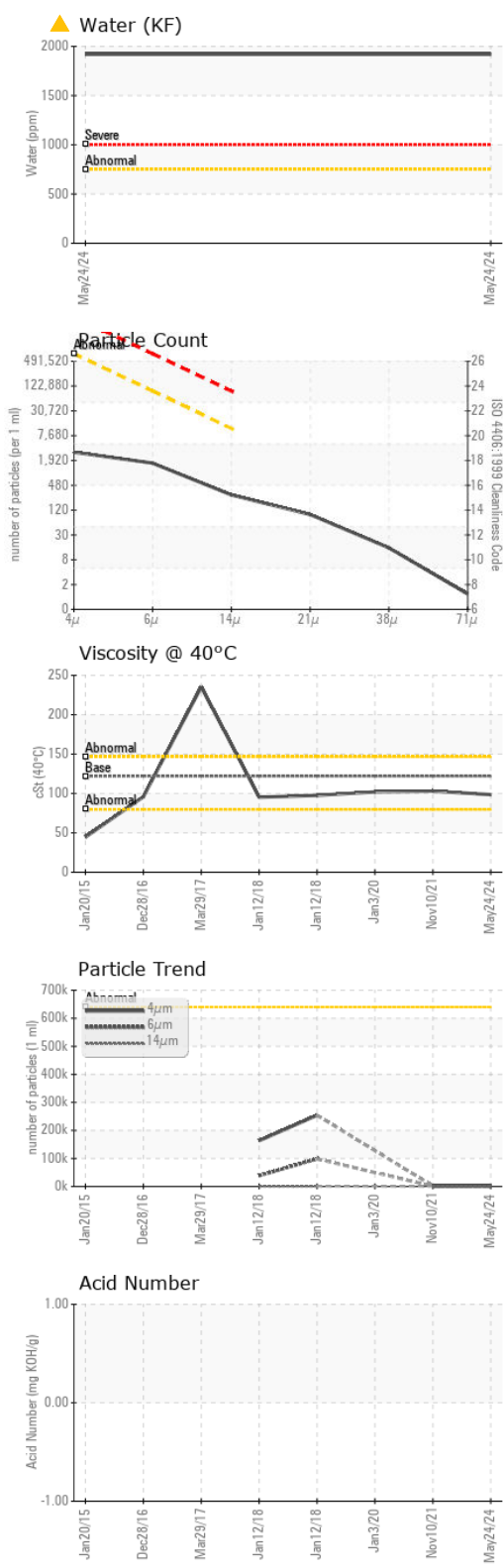
Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	<b>15</b>	12	24
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	1
Water	%	ASTM D6304	>0.075	<b>▲ 0.192</b>	---	---
ppm Water	ppm	ASTM D6304	>750	<b>▲ 1920</b>	---	---
Particles >4µm		ASTM D7647	>640000	<b>2662</b>	1838	---
Particles >6µm		ASTM D7647	>80000	<b>1450</b>	1001	---
Particles >14µm		ASTM D7647	>10000	<b>247</b>	170	---
Particles >21µm		ASTM D7647	>2500	<b>83</b>	57	---
Particles >38µm		ASTM D7647	>640	<b>13</b>	9	---
Particles >71µm		ASTM D7647	>160	<b>1</b>	1	---
Oil Cleanliness		ISO 4406 (c)	>26/23/20	<b>19/18/15</b>	18/17/15	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>▲ MODER</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	>0.075	<b>0.2%</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>1</b>	1	1
Boron	ppm	ASTM D5185m		<b>329</b>	308	331
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>4</b>	6	2
Manganese	ppm	ASTM D5185m		<b>1</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>67</b>	29	11
Calcium	ppm	ASTM D5185m		<b>84</b>	76	69
Phosphorus	ppm	ASTM D5185m		<b>1587</b>	1331	1318
Zinc	ppm	ASTM D5185m		<b>139</b>	61	27
Sulfur	ppm	ASTM D5185m		<b>30528</b>	20800	20666
Visc @ 40°C	cSt	ASTM D445	122	<b>98.5</b>	103	102



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0939225 **Received** : 29 May 2024  
**Lab Number** : 06193846 **Tested** : 01 Jun 2024  
**Unique Number** : 11055969 **Diagnosed** : 01 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, PrtCount )

**CAROLINA SUNROCK**  
 PO BOX 25  
 BUTNER, NC  
 US 27509  
 Contact: Leigh Dennis  
 rdennis@thesunrockgroup.com  
 T: (919)575-4505  
 F: (919)575-0162

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)