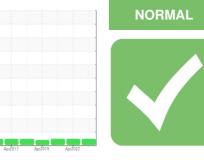


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **ALSTOM 3532**

Component Hydraulic System ESSO UNIVIS N 32 (55 GAL)

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	ΛΑΤΙΟΝ	method				history2
Sample Number		Client Info		WC0781688	WC0643784	WC0560224
Sample Date		Client Info		29 Mar 2024	10 Apr 2022	05 Apr 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	2	3
Chromium	ppm	ASTM D5185m	>10	2	3	4
Nickel	ppm	ASTM D5185m	>10	19	26	27
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	10	11	15
Copper	ppm	ASTM D5185m	>75	5	6	7
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	.1	0	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	.3	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	2	0	<1
Calcium	ppm	ASTM D5185m	74	52	56	61
Phosphorus	ppm	ASTM D5185m	266	354	371	358
Zinc	ppm	ASTM D5185m	338	438	390	463
Sulfur	ppm	ASTM D5185m		3294	2837	3055
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	<1	1
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	2453	2877	2579
Particles >6µm		ASTM D7647	>1300	530	773	454
Particles >14µm		ASTM D7647	>160	40	86	25
Particles >21µm		ASTM D7647	>40	14	20	6
Particles >38µm		ASTM D7647	>10	1	2	0
Particles >71µm		ASTM D7647	>3	0	0	0

ISO 4406 (c) >20/17/14

**Oil Cleanliness** 

18/16/12

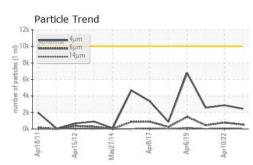
19/17/14

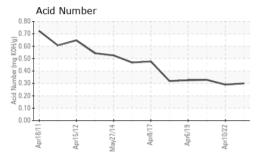
19/16/12

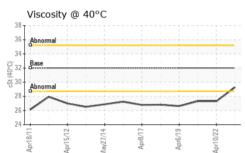


# **OIL ANALYSIS REPORT**

FLUID DEGRADATION







av27/1

Particle Trend

umber of particles (1 ml)

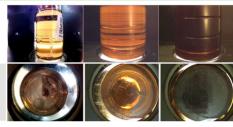
2

01

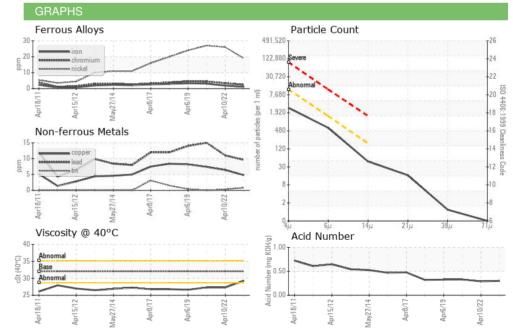
Apr18/1

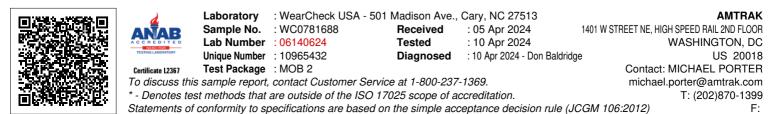


Color



Bottom





Report Id: AMTRAK [WUSCAR] 06140624 (Generated: 04/10/2024 17:39:42) Rev: 1

Contact/Location: MICHAEL PORTER - AMTRAK

Page 2 of 2