

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

ALSTOM R042

Component Gearbox Fluic TOTAL CARTER SH 220 (3 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 oil.

Fluid Condition

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

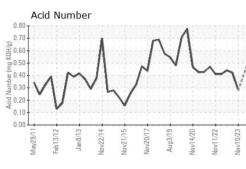


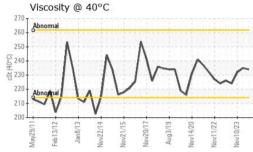
v/2011 Feb2012 Jan2013 Nov2014 Nov2015 Nov2017 Aug2019 Nov2020 Nov2022 Nov2023

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0673298	WC0673299	WC0798904
Sample Date		Client Info		16 Nov 2023	15 Nov 2023	10 Nov 2023
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	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	126	a 257	144
Chromium	ppm	ASTM D5185m	>10	<1	3	2
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	6	4
Lead	ppm	ASTM D5185m	>50	1	5	5
Copper	ppm	ASTM D5185m	>200	42	82	64
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	2	2
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		2	3	3
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m		8	15	0
Phosphorus	ppm	ASTM D5185m		336	327	203
Zinc	ppm	ASTM D5185m		69	105	47
Sulfur	ppm	ASTM D5185m		3878	3852	3551
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	25	39	25
Sodium	ppm	ASTM D5185m		22	37	40
Potassium	ppm	ASTM D5185m	>20	<1	1	1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.544		0.28



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VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	~U.L	NEG	NEG	NEG
FLUID PROPER	_	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		234	235	232
SAMPLE IMAGE		method	limit/base	current	history1	history2
		- methour	minubase	Current	HISTORY I	
Color				no image	no image	no image
Bottom			_	no image	no image	no image
GRAPHS						
Iron (ppm)				Lead (ppm)		
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