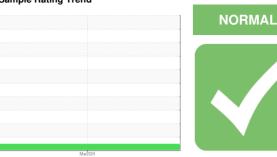


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

SNORKEL RESCUE 3

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

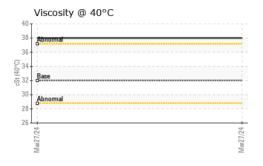
Fluid Condition

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

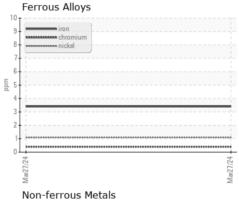
SAMPLE INFORMATION					Mar2024		
Sample Number Client Info WC0907057 Sample Date Client Info 27 Mar 2024 Machine Age hrs Client Info 740 Oil Age hrs Client Info 0 Oil Age hrs Client Info Not Changd Oil Changed Client Info Not Changd Oil Changd Client Info Not Changd Oil Changd Client Info Not Changd	SAMPLE INFORM	MATION	method	limit/hase	current	history1	history2
Client Info		<i>,,</i> (11014		mmbasc			motoryz
Machine Age							
Oil Changed	•	,					
Contamped Client Info Not Changd Contample Sample Status Contample Status Con							
CONTAMINATION	-	nrs			•		
Water			Client Info				
Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 3 Chromium ppm ASTM D5185m >10 <1					NORMAL		
WEAR METALS		1	method	limit/base	current	history1	history2
Chromium	Water		WC Method	>0.1	NEG		
Description	WEAR METALS		method	limit/base	current	history1	history2
Nickel	ron	ppm	ASTM D5185m	>20	3		
ASTM D5185m Canal Companies Canal Companie	Chromium	ppm	ASTM D5185m	>10	<1		
ASTM D5185m STM D5185m ST	Nickel	ppm	ASTM D5185m	>10	1		
ASTM D5185m >10 6	Titanium	ppm	ASTM D5185m		<1		
Lead	Silver	ppm	ASTM D5185m		<1		
Description	Aluminum	ppm	ASTM D5185m	>10	6		
Tin	_ead	ppm	ASTM D5185m	>10	2		
Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m 2 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 5 1 Barium ppm ASTM D5185m 5 2 Molybdenum ppm ASTM D5185m 5 2 Magnesium ppm ASTM D5185m 25 11 Magnesium ppm ASTM D5185m 200 115 Calcium ppm ASTM D5185m 200 115 Phosphorus ppm ASTM D5185m 370 273 Zinc ppm ASTM D5185m 200 1554 CONTAMINANTS method limit/base current history1	Copper	ppm	ASTM D5185m	>75	4		
ADDITIVES	Гіп	ppm	ASTM D5185m	>10	2		
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1		
Boron	Cadmium	ppm	ASTM D5185m		2		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 5 2 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m	5	1		
Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 25 11 Calcium ppm ASTM D5185m 200 115 Phosphorus ppm ASTM D5185m 300 421 Zinc ppm ASTM D5185m 370 273 Sulfur ppm ASTM D5185m 2500 1554 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 Sodium ppm ASTM D5185m >20 1 Potassium ppm ASTM D5185m >20 1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE	Barium	ppm	ASTM D5185m	5	0		
Magnesium ppm ASTM D5185m 25 11 Calcium ppm ASTM D5185m 200 115 Phosphorus ppm ASTM D5185m 300 421 Zinc ppm ASTM D5185m 370 273 Sulfur ppm ASTM D5185m 2500 1554 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 Sodium ppm ASTM D5185m >20 1 Potassium ppm ASTM D5185m >20 1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual	Molybdenum	ppm	ASTM D5185m	5	2		
Calcium ppm ASTM D5185m 200 115 Phosphorus ppm ASTM D5185m 300 421 Zinc ppm ASTM D5185m 370 273 Sulfur ppm ASTM D5185m 2500 1554 CONTAMINANTS method limit/base current history1 history2 Sodium ppm ASTM D5185m 20 2 Potassium ppm ASTM D5185m >20 1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual	Manganese	ppm	ASTM D5185m		<1		
Phosphorus ppm ASTM D5185m 300 421 Zinc ppm ASTM D5185m 370 273 Sulfur ppm ASTM D5185m 2500 1554 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 20 2 Potassium ppm ASTM D5185m >20 1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual	Magnesium	ppm	ASTM D5185m	25	11		
Zinc	Calcium	ppm	ASTM D5185m	200	115		
Sulfur ppm ASTM D5185m 2500 1554 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 Sodium ppm ASTM D5185m >20 1 Potassium ppm ASTM D5185m >20 1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Debris scalar *Visual	Phosphorus	ppm	ASTM D5185m	300	421		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 1 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 NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML <td< td=""><td>Zinc</td><td>ppm</td><td>ASTM D5185m</td><td>370</td><th>273</th><td></td><td></td></td<>	Zinc	ppm	ASTM D5185m	370	273		
Silicon	Sulfur	ppm	ASTM D5185m	2500	1554		
Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual >0.1 NEG	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE LIGHT Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Dodor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Silicon	ppm	ASTM D5185m	>20	2		
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 LIGHT Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Sodium	ppm	ASTM D5185m		0		
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 LIGHT Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Potassium	ppm	ASTM D5185m	>20	1		
Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE LIGHT Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Codor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE LIGHT Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Ddor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	White Metal	scalar	*Visual	NONE	NONE		
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE LIGHT Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Ddor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris scalar *Visual NONE LIGHT Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Ddor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Debris	scalar	*Visual	NONE	LIGHT		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.1	NEG		
:40:21) Rev: 1 Contact/Location: MARCUS QUARLES - MEMMEMT		scalar	*Visual				

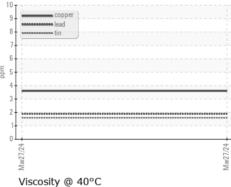


OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	38.0		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image







Certificate 12367

Laboratory

Sample No. : WC0907057 Lab Number : 06139000

Unique Number : 10963808 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Apr 2024 Tested

Diagnosed

: 05 Apr 2024 : 06 Apr 2024 - Don Baldridge

MEMPHIS FIRE DEPT 354 ADAMS MEMPHIS, TN US 38103 Contact: MARCUS QUARLES

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. MARCUS.QUARLES@MEMPHISTN.GOV T: (910)320-5380 F: (901)576-6191

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: MEMMEMTN [WUSCAR] 06139000 (Generated: 04/06/2024 13:40:21) Rev: 1

Contact/Location: MARCUS QUARLES - MEMMEMTN