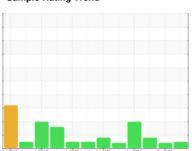


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



RECOVERY FILTRATE TK 1 - AGITATOR

Component **Gearbox**

SHELL OMALA S4 WE 460 (1 GAL)

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 oil. The amount and size of particulates present in the system are acceptable.

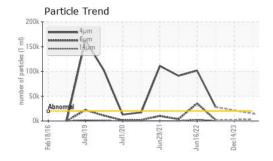
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

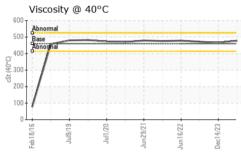
		Feb 2016	Jul2019 Jul2020	Jun2021 Jun2022 D	ec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0915920	WC0887329	WC0771454
Sample Date		Client Info		05 Jun 2024	14 Dec 2023	26 Dec 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ATTENTION
CONTAMINATION	١	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	0	0	2
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	2	<1
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	7	6	25
Tin	ppm	ASTM D5185m	>25	2	<1	5
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	<1	0
Barium	ppm	ASTM D5185m		<1	10	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		2	<1	2
Calcium	ppm	ASTM D5185m		4	<1	<1
Phosphorus	ppm	ASTM D5185m		410	348	396
Zinc	ppm	ASTM D5185m		8	0	1
Sulfur	ppm	ASTM D5185m		23	11	27
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	9	10
Sodium	ppm	ASTM D5185m		0	5	0
Potassium	ppm	ASTM D5185m	>20	5	2	3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	15049		27959
Particles >6µm		ASTM D7647	>5000	2801		1701
Particles >14μm		ASTM D7647	>640	156		95
Particles >21μm		ASTM D7647	>160	35		31
Particles >38μm		ASTM D7647	>40	4		3
Particles >71μm		ASTM D7647		1		1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/14		22/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

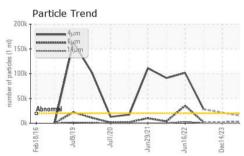


OIL ANALYSIS REPORT



	umber				
0.40					
S 0.30					
0.35 0.20 0.20 0.15	1				
0.20		\			
S 0.15		1		_	_
P 0.10				-	
0.00					
Feb18/16	Jul9/19	Jul1/20	Jun29/21	16/22	Dec14/23
윤	ラ	ā	Jul	Jun1	Dec



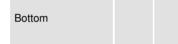


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
					•	

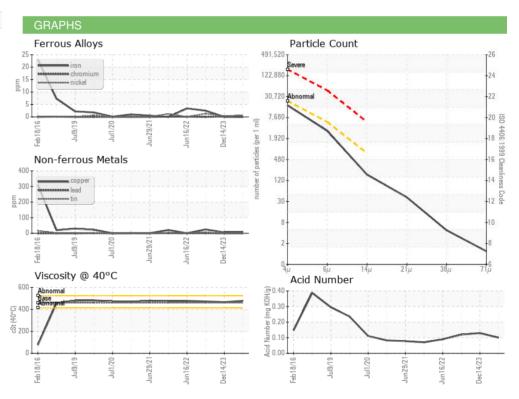
Visc @ 40°C	cSt	ASTM D445	460	478	466	472
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Color

SAMPLE IMAGES











Certificate 12367

Laboratory Sample No. Lab Number : 06204560 Unique Number : 11072021

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0915920

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : IND 2 (Additional Tests: PrtCount)

Received **Tested**

: 10 Jun 2024 : 12 Jun 2024 Diagnosed

: 12 Jun 2024 - Angela Borella

GASTONIA, NC US 28056 Contact: TIMOTHY DAVIS timothy.davis@lubrizol.com

LUBRIZOL ADVANCED MATERIALS INC

207 TELEGRAPH DR

* - 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)

F: x:

T: (704)915-4131