

OIL ANALYSIS REPORT

Area STK PILES FRONT ST-05 ST-05 Component

Component Gear Reducer Fluid SHELL MORLINA S4 B 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

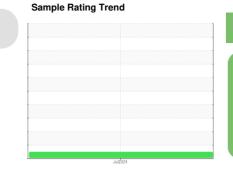
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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



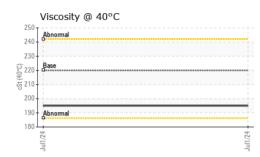


NORMAL

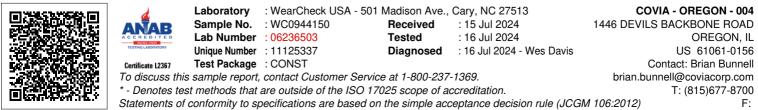
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0944150		
Sample Date		Client Info		01 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
		ام مالح میں			Internet	histow.0
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>250	140		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>50	1		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		77		
Phosphorus	ppm	ASTM D5185m		261		
Zinc	ppm	ASTM D5185m		55		
Sulfur	ppm	ASTM D5185m		1401		
CONTAMINANTS	1	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	15		
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	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
2:01:06) Boy: 1	000101	Vioudi			ation: Brian Pu	



OIL ANALYSIS REPORT



FLUID PROPER		method	limit/base	current	history1	history2
isc @ 40°C	cSt	ASTM D445		195		
SAMPLE IMAGE	ES	method	limit/base	current	history1	history2
olor				no image	no image	no image
				no image	nonnage	no image
Bottom				no image	no image	no image
GRAPHS						
Ferrous Alloys						
iron chromium						
nickel						
-						
**						
Jul1/24			Jul1/24 -			
Non-ferrous Met	als					
L						
copper tin						
· · · · · · · · · · · · · · · · · · ·						
-						
-						
L						
Jul1/24			Jul1/24			
Viscosity @ 40°C	2		*			
Abnormal						
_						
Base						
Base						
Abnormal						
24			24			
Jul1/24			Jul1/24			



Report Id: COVORE [WUSCAR] 06236503 (Generated: 07/16/2024 12:01:06) Rev: 1

Contact/Location: Brian Bunnell - COVORE Page 2 of 2