

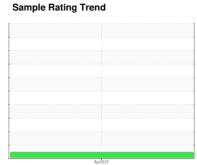
OIL ANALYSIS REPORT



Knightdale **CATERPILLAR Crane Truck**

Diesel Engine

DIESEL ENGINE OIL SAE 50 (--- GAL)





DIAGNOSIS

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

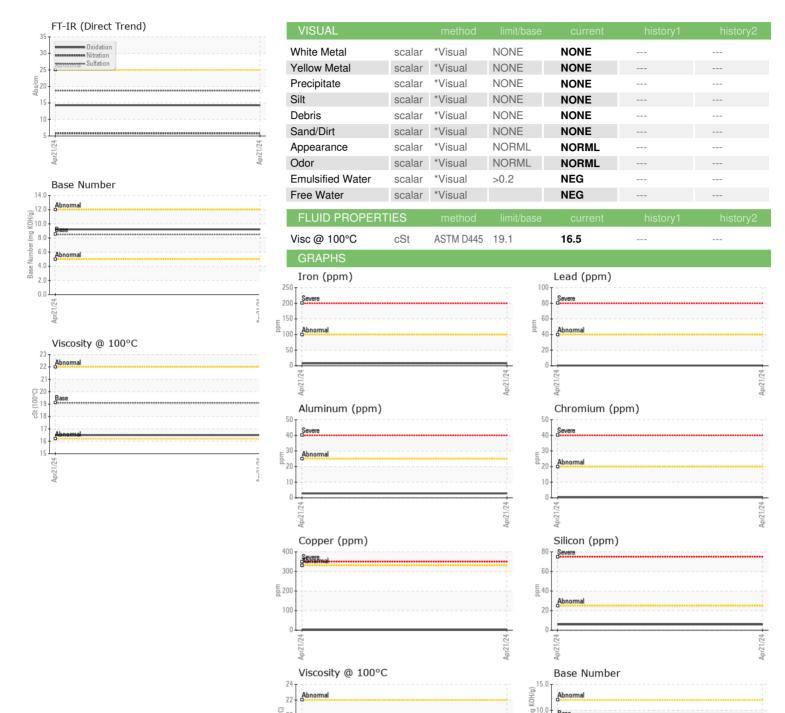
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

AE 50 (GAL)				Apr2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0321749		
Sample Date		Client Info		21 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0		
Nater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	8		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>25	3		
_ead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	1		
Γin	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	45		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	40		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	404		
Calcium	ppm	ASTM D5185m	3000	1279		
Phosphorus	ppm	ASTM D5185m	1150	843		
Zinc	ppm	ASTM D5185m	1350	992		
Sulfur	ppm	ASTM D5185m	4250	2729		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	5.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.2		



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0321749 Lab Number : 06156691 Unique Number : 10992114

Diagnosed Test Package : MOBCE (Additional Tests: TBN)

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.

CLASS 7 REPAIR 1421 E BROAD ST FUQUAY VARINA, NC US 27526 Contact: RODGER KOSS

rkatmtv@gmail.com T: (919)422-9045 F: x:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Tested

0.0

: 22 Apr 2024

: 23 Apr 2024

: 23 Apr 2024 - Angela Borella