

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id KENWORTH T800 745 (S/N KCB67209)

Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

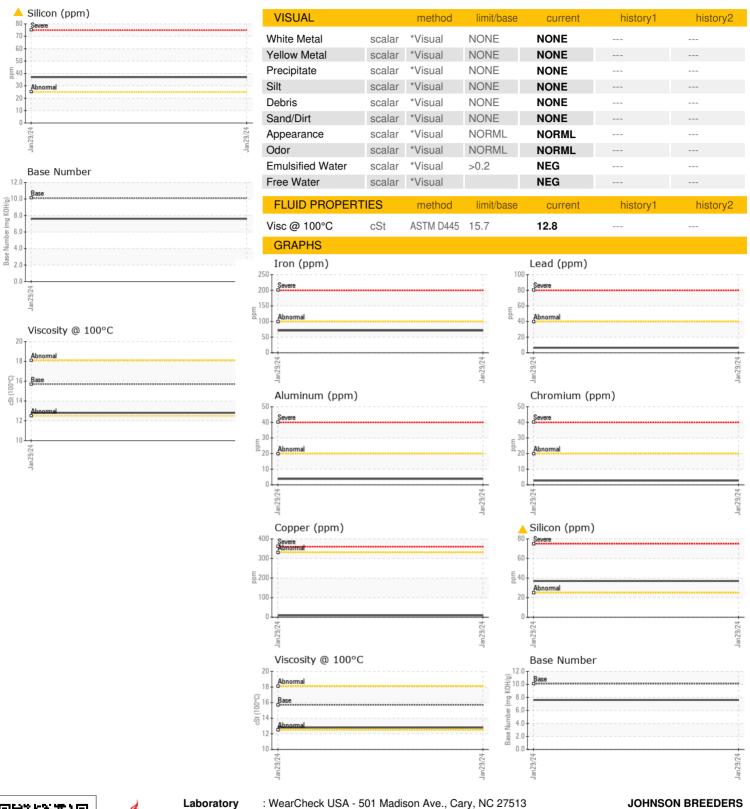
Fluid Condition

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.

				Jan 2024		
SAMPLE INFORM	AATIONI				la tanka marak	la la tarri O
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0878903		
Sample Date		Client Info		29 Jan 2024		
Machine Age	mls	Client Info		980723		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	71		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	4		
Lead	ppm	ASTM D5185m	>40	6		
Copper	ppm	ASTM D5185m	>330	9		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	11		
Barium	ppm	ASTM D5185m	0.0	0		
Molybdenum	ppm	ASTM D5185m	1.2	40		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	24	532		
Calcium	ppm	ASTM D5185m	2292	1235		
Phosphorus	ppm	ASTM D5185m	1064	814		
Zinc	ppm	ASTM D5185m	1160	974		
Sulfur	ppm	ASTM D5185m	4996	2503		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	△ 37		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2		
Nitration	Abs/cm	*ASTM D7624	>20	9.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8		
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.6		
()	0 - 0					



OIL ANALYSIS REPORT





Laboratory Sample No. Lab Number **Unique Number**

: 06076314 : 10858405

: WC0878903 Recieved

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 02 Feb 2024 Diagnostician : Don Baldridge

: 31 Jan 2024

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

Contact: GREG JONES gregory.jones@houseofraeford.com T: (910)289-6884

* - 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)

Contact/Location: GREG JONES - JOHROSNC

3425 HWY 117N

ROSE HILL, NC

US 28458

F: