

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KENWORTH T880 5764 (S/N 1XKZDP9X4RJ361022)

Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

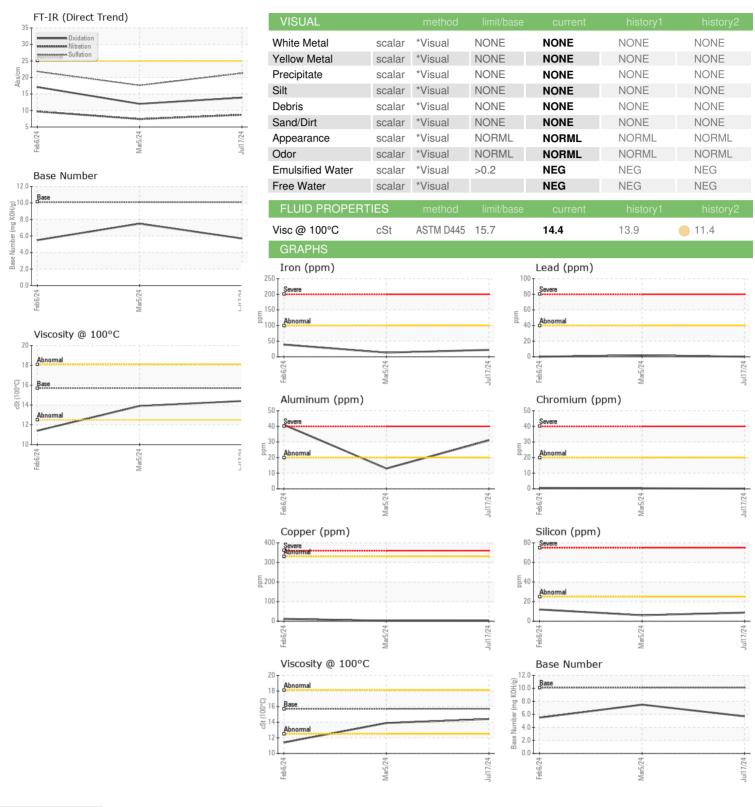
Fluid Condition

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

		Fet	2024	Mar2024 Jul20	24	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0917119	WC0878966	WC0878914
Sample Date		Client Info		17 Jul 2024	05 Mar 2024	06 Feb 2024
Machine Age	mls	Client Info		35981	14504	11223
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION	1	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	22	13	39
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m		31	13	41
Lead	ppm	ASTM D5185m	>40	0	2	0
Copper	ppm	ASTM D5185m		2	3	12
Tin	ppm	ASTM D5185m	>15	<1	1	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	9	19	36
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m	1.2	18	16	2
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m	24	186	300	766
Calcium	ppm	ASTM D5185m	2292 1064	2064	2087	1332
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1160	940 1114	942 1133	735 859
Sulfur	ppm	ASTM D5185m		3937	4370	3091
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		9	6	12
Sodium	ppm	ASTM D5185m	/20	2	1	3
Potassium	ppm	ASTM D5185m	>20	87	35	127
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.4	9.7
Sulfation	Abs/.1mm	*ASTM D7415		21.3	17.6	21.8
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	12.0	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.7	7.5	5.5
= 5.00 · (5/4)	9			011		0.0



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Certificate 12367

Laboratory Sample No.

: WC0917119 Lab Number : 06239681 Unique Number : 11128515

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024 **Tested** Diagnosed

: 18 Jul 2024 : 19 Jul 2024 - Sean Felton

3425 HWY 117N ROSE HILL, NC US 28458 Contact: GREG JONES gregory.jones@houseofraeford.com

JOHNSON BREEDERS

Test Package : MOB 1 (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.

T: (910)289-6884 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: JOHROSNC [WUSCAR] 06239681 (Generated: 07/21/2024 13:22:59) Rev: 1

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