

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

KENWORTH T800 8027 (S/N KCB19973) Component

Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

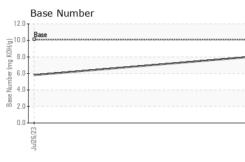
Fluid Condition

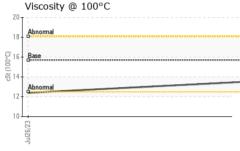
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			Jul2023	Jan2024		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0878734	WC0613636	
Sample Date		Client Info		12 Jan 2024	26 Jul 2023	
Machine Age	mls	Client Info		73577	683990	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	SEVERE	
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	3 .8	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	56	1 89	
Chromium	ppm	ASTM D5185m	>20	4	12	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	2	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	8	1 20	
_ead	ppm	ASTM D5185m	>40	6	26	
Copper	ppm	ASTM D5185m	>330	16	66	
Tin	ppm	ASTM D5185m	>15	2	7	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	33	21	
Barium	ppm	ASTM D5185m	0.0	0	0	
Volybdenum	ppm	ASTM D5185m	1.2	56	75	
Vanganese	ppm	ASTM D5185m		<1	2	
Vagnesium	ppm	ASTM D5185m	24	494	447	
Calcium	ppm	ASTM D5185m	2292	1577	1576	
Phosphorus	ppm	ASTM D5185m	1064	1047	876	
Zinc	ppm	ASTM D5185m		1197	1080	
Sulfur	ppm	ASTM D5185m	4996	3253	2859	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	42	• 106	
Sodium	ppm	ASTM D5185m		6	12	
Potassium	ppm	ASTM D5185m	>20	5	16	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	1.2	
Nitration	Abs/cm	*ASTM D7624	>20	7.6	11.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	24.3	
		mathad	limit/base	ourropt	history1	history2
FLUID DEGRADA	TION	method	mmubase	current	TIIStOLA	mstoryz
FLUID DEGRADA Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	18.9	



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NONE White Metal *Visual NONE NONE scalar Yellow Metal *Visual NONE NONE NONE scalar Precipitate scalar *Visua NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris NONE *Visual NONE NONE scalar Sand/Dirt NONE scalar *Visual NONE NONE Jan 12/24 NORML Appearance scalar *Visual NORML NORML Odor *Visual NORML NORML scalar NORML **Emulsified Water** scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG FLUID PROPERTIES Visc @ 100°C cSt ASTM D445 15.7 13.5 12.4 GRAPHS Iron (ppm) Lead (ppm) 100 200 80 150 60 ppm ppm 100 40 50 20 0 Jan 12/24 . Aluminum (ppm) Chromium (ppm) 50 5 40 40 30 30 10 lan 12/24 Copper (ppm) Silicon (ppm) 400 120 100 300 80 la 200 mdd 60 40 100 20 Π an17/74 Viscosity @ 100°C Base Number 20 12. (B)H0.0 18 8 ((Buu) 6.0 umber , tr 4.0 12 Base 2.0 10 0.0 Jan 12/24 JOHNSON BREEDERS : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0878734 Recieved : 17 Jan 2024 3425 HWY 117N Lab Number : 06063366 Diagnosed : 18 Jan 2024 ROSE HILL, NC Diagnostician : Wes Davis : 10834748 US 28458 Unique Number Test Package : MOB 1 (Additional Tests: TBN) Contact: GREG JONES gregory.jones@houseofraeford.com

Certificate L2367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Laboratory

Sample No.

F:

T: (910)289-6884