

# **OIL ANALYSIS REPORT**

## NORMAL

#### Machine Id

# **2002 KENWORTH 90**

Diesel Engine

Fluid CHEVRON DELO 400 MULTIGRADE 15W40 (10 GAL)

#### DIAGNOSIS

#### 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.

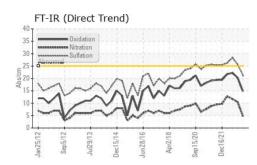
0 (10 GAL)								
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		KL0013653	KL0007004	KL0006993		
Sample Date		Client Info		04 Jun 2024	09 Jan 2023	13 Oct 2022		
Achine Age	mls	Client Info		23293	23065	14049		
Dil Age	mls	Client Info		23293	23065	14049		
Dil Changed		Client Info		Not Changd	Not Changd	N/A		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2		
uel		WC Method	>5	<1.0	<1.0	<1.0		
Vater		WC Method	>0.2	NEG	NEG	NEG		
alycol		WC Method		NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
ron	ppm	ASTM D5185m	>100	8	111	101		
Chromium	ppm	ASTM D5185m	>20	<1	2	2		
lickel	ppm	ASTM D5185m	>2	0	<1	0		
itanium	ppm	ASTM D5185m	>2	<1	<1	<1		
Silver	ppm	ASTM D5185m	>2	0	0	0		
luminum	ppm	ASTM D5185m	>25	3	4	4		
ead	ppm	ASTM D5185m	>40	<1	33	32		
Copper	ppm	ASTM D5185m	>330	3	51	58		
ïn	ppm	ASTM D5185m	>15	<1	4	4		
/anadium	ppm	ASTM D5185m		<1	0	<1		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	151	402	110	106		
Barium	ppm	ASTM D5185m	0.4	0	0	2		
lolybdenum	ppm	ASTM D5185m	250	114	115	112		
langanese	ppm	ASTM D5185m		0	1	1		
lagnesium	ppm	ASTM D5185m	0	569	619	607		
Calcium	ppm	ASTM D5185m	2046	1396	1727	1578		
hosphorus	ppm	ASTM D5185m	1043	895	710	694		
linc	ppm	ASTM D5185m	943	961	884	874		
Sulfur	ppm	ASTM D5185m	5012	2826	2754	2752		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	8	10	11		
Sodium	ppm	ASTM D5185m		0	2	1		
otassium	ppm	ASTM D5185m		2	<1	2		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.1	1	1.2		
litration	Abs/cm	*ASTM D7624	>20	4.7	10.5	11.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	25.6	28.4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Duri al a ti a ra	Abs/.1mm	*ASTM D7414	<u>&gt;25</u>	14.8	20.2	22.2		
Dxidation	AUS/.IIIIII		220	14.0	20.2	22.2		

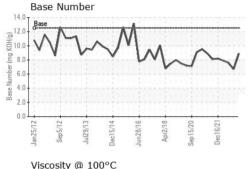
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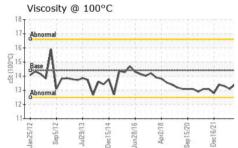
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.1	13.3
GRAPHS						

Non-ferrous Metals

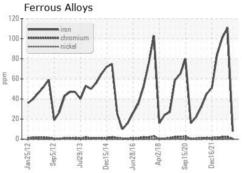
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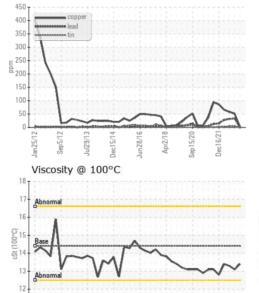
Jan25/12

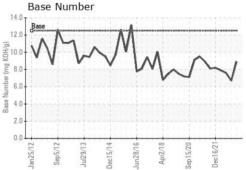
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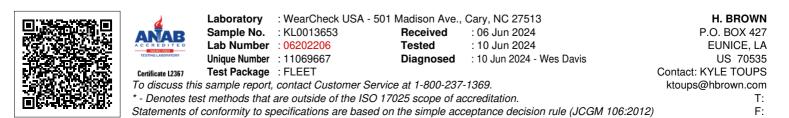
ul29/13

Dec15/1









Sep 15/20

nr2/18

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