

## **OIL ANALYSIS REPORT**



GLYCOL

# KENWORTH 400

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

Test for glycol is positive. There is a moderate concentration of glycol present in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

			12022	Mw2022 Eab202	4	
			11	1602023 160202	in the transmission	history O
SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0082949	PCA0069348	PCA0043278
Sample Date		Client Info		04 Feb 2024	11 May 2023	21 Jul 2022
Machine Age	mls	Client Info		0	653681	613246
Oil Age	mls	Client Info		0	14169	15000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>100	8	17	19
Chromium	ppm	ASTM D5185m	>20	د د1	1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	mag	ASTM D5185m	>20	4	<1	2
Lead	mag	ASTM D5185m	>40	3	2	0
Copper	ppm	ASTM D5185m	>330	<1	1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	250	3	8	4
Barium	nom	ASTM D5185m	10	0	0	0
Molybdenum	nom	ASTM D5185m	100	63	60	58
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	450	970	893	910
Calcium	mag	ASTM D5185m	3000	1045	1099	1081
Phosphorus	ppm	ASTM D5185m	1150	1064	990	972
Zinc	ppm	ASTM D5185m	1350	1210	1238	1199
Sulfur	ppm	ASTM D5185m	4250	2742	3242	3480
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	15
Sodium	ppm	ASTM D5185m	>158	11	2	3
Potassium	ppm	ASTM D5185m	>20	<b>A</b> 270	5	2
Glycol	%	*ASTM D2982		<b>0.06</b>	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.9	8.6	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.1	19.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/ 1mm	*ASTM D7414	>25	14.4	14 1	15.2
Base Number (BN)	ma KOH/a	ASTM D2896	8.5	8.3	8.2	7.8
	ing itonig		5.0	0.0	0.1	1.0



2.0 0.0

18

16 cSt (100°C) Ba

Jul21/22

Jul21

Viscosity @ 100°C

# **OIL ANALYSIS REPORT**

method

limit/base

current

history1

history2

VISUAL



Mav11/23

Mav11/23



6.0

2.0 0.0

> 60 Jul21

Base 4 (

Feb4/24

: 05 Feb 2024

: 05 Feb 2024



: Wes Davis Unique Number : 10861578 Diagnostician Test Package : FLEET (Additional Tests: Glycol) 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)

May11

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Recieved

Diagnosed

13

12

Laboratory

Sample No.

Lab Number

Jul21/22

: PCA0082949

: 06079487

Contact: JAY LEFEBVRE jay.lefebvre@leftruck.com

1/23

/lav1

LEFEBVRE

US 55330

T:

F:

ELK RIVER, MN

10895 171ST AVE NW