

PROBLEM SUMMARY

Machine Id

KENWORTH 3042 Component Diesel Engine Fluid

CHEVRON DELO 400 XLE 10W30 (--- QTS)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS	

Sample Status				SEVERE	NORMAL	NORMAL
Potassium	ppm	ASTM D5185m	>20	A 321	13	39
Glycol	%	*ASTM D2982		0.10	NEG	NEG
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	A 2.07	6.4	7.1

Customer Id: LTIJER Sample No.: WCMFB57025 Lab Number: 06196184 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Service/change Fluid			?	The oil is near the end of it's useful service life, recommend schedule an oil change.			
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Glycol Access			2	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS



16 Sep 2021 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



27 Mar 2021 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



\checkmark

NORMAL

20 Jan 2021 Diag: Jonathan Hester

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend



Machine Id

KENWORTH 3042

Diesel Engine Fluid CHEVRON DELO 400 XLE 10W30 (--- QTS)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive.

Fluid Condition

The BN level is low. The oil is no longer serviceable due to the presence of contaminants.

Sample Number Sample Date		Client Info Client Info		WCMFB57025 30 May 2024	WCMFB57055 16 Sep 2021	WCMFB57082 27 Mar 2021		
Machine Age	mls	Client Info		0	0	94603		
Oil Age	mls	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	Not Changd		
Sample Status				SEVERE	NORMAL	NORMAL		
CONTAMINATION	I	method	limit/base	current	history1	history2		
Fuel		WC Method	>5	<1.0	<1.0	<1.0		
Water		WC Method	>0.2	NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>100	32	21	0		
Chromium	ppm	ASTM D5185m	>20	1	<1	<1		
Nickel	ppm	ASTM D5185m	>4	0	0	3		
Titanium	ppm	ASTM D5185m		0	<1	<1		
Silver	ppm	ASTM D5185m	>3	0	<1	<1		
Aluminum	ppm	ASTM D5185m	>20	12	8	12		
Lead	ppm	ASTM D5185m	>40	0	<1	0		
Copper	ppm	ASTM D5185m	>330	3	2	2		
l In Antimony	ppm	ASTM D5185m	>15	<1	<1	0		
Antimony	ppm	ASTM DE105m			0	< 1		
Codmium	ppm	ASTM D5105III		<1	< 1	0		
Caumum	ррш	ASTIM D3103III		U	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		15	27	34		
Barium	ppm	ASTM D5185m		2	0	0		
Molybdenum	ppm	ASTM D5185m		906	1	<1		
Manganese	ppm	ASTM D5185m		<1	<1	<1		
Magnesium	ppm	ASTM D5185m		323	738	777		
Calcium	ppm	ASTM D5185m	2900	824	1625	1595		
Phosphorus	ppm	ASTM D5185m	1000	237	818	763		
ZINC	ppm	ASTM D5185m	1200	290	090	000		
Sullui	ррпп	ASTIM D3103III	4000	2034	2017	2003		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	8	4	5		
Sodium	ppm	ASTM D5185m		4	1	3		
Potassium	ppm	ASTM D5185m	>20	A 321	13	39		
Glycol	%	*ASTM D2982		A 0.10	NEG	NEG		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	9.9	10.4	10.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	22.7	22.5		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.7	17	16.7		
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<u> </u>	6.4	7.1		
:47:08) Rev: 2				Contact/Location: Cesar ESPINO - LTIJER				

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OIL ANALYSIS REPORT



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Contact/Location: Cesar ESPINO - LTIJER

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