

OIL ANALYSIS REPORT

GLYCOL

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KENWORTH 20

Component **Diesel Engine** DIESEL ENGINE OIL SAE 40 (--- 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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

A Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

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

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

			S	ep2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864498		
Sample Date		Client Info		28 Sep 2023		
Machine Age	hrs	Client Info		1303637		
Oil Age	hrs	Client Info		15000		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		6		
Iron	ppm	ASTM D5185(m)	>100	<u> </u>		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	10		
Lead	ppm	ASTM D5185(m)	>40	36		
Copper	ppm	ASTM D5185(m)	>330	4		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	27		
Barium	ppm	ASTM D5185(m)	10	<1		
Molybdenum	ppm	ASTM D5185(m)	100	140		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	450	601		
Calcium	ppm	ASTM D5185(m)	3000	1899		
Phosphorus	ppm	ASTM D5185(m)	1150	883		
Zinc	ppm	ASTM D5185(m)	1350	1052		
Sulfur	ppm	ASTM D5185(m)	4250	2434		
Lithium	ppm	ASTM D5185(m)		<1		
		in a the a d	limit/base	current	history1	history2
CONTAMINANTS		method	iiiiiii/base	oarront	Thistory I	motoryz
	ppm	ASTM D5185(m)	>25	24		
Silicon			>25			
Silicon Sodium	ppm	ASTM D5185(m)	>25	24		
Silicon	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>25 >216	24 ▲ 801		
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >216	24 ▲ 801 ▲ 137		
Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7922*	>25 >216 >20	24 ▲ 801 ▲ 137 ● 0.189		
Silicon Sodium Potassium Glycol	ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7922* method	>25 >216 >20 limit/base	24 ▲ 801 ▲ 137 ● 0.189 current	 history1	 history2



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