

OIL ANALYSIS REPORT

Area {UNASSIGNED} P 28 (Dodge Ram 3500)

Diesel Engine Fluic SHELL ROTELLA T4 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

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

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.



Sample Number		Client Info		PE0002314		
Sample Date		Client Info		21 Jun 2024		
Machine Age	mls	Client Info		63000		
Oil Age	mls	Client Info		2500		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	19		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>20	3		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		158		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		6		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		53		
Calcium	ppm	ASTM D5185m		2068		
Phosphorus	ppm	ASTM D5185m		857		
Zinc	ppm	ASTM D5185m		1100		
Sulfur	ppm	ASTM D5185m		3314		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	<u> </u>		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Ahs/1mm	*ASTM D7414	>25	16.5		
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