

Area BD SHOP

OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend





NORMAL

300180 Component Diesel Engine Fluid TEST OIL GOLD 4 (40 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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.

Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATION	kms kms	Client Info Client Info Client Info Client Info Client Info method	limit/base	WC0926267 11 Jul 2024 309971 1 Changed NORMAL current	WC0955703 11 Jul 2024 309970 59801 Not Changd history1	WC0926287 16 Jun 2024 301298 24124 Not Changd NORMAL history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	0.0	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	2	26	23	
Chromium	ppm	ASTM D5185(m)	>20	0	1	1	
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	0	
Silver	ppm	ASTM D5185(m)	>3	0	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	1	13	12	
Lead	ppm	ASTM D5185(m)	>40	0	0	0	
Copper	ppm	ASTM D5185(m)	>330	<1	3	3	
Tin	ppm	ASTM D5185(m)	>15	0	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	1	1	3	3	
Barium	ppm	ASTM D5185(m)	0	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	60	57	62	61	
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1	
Magnesium	ppm	ASTM D5185(m)	950	951	967	974	
Calcium	ppm	ASTM D5185(m)	980	1024	1083	1078	
Phosphorus	ppm	ASTM D5185(m)	1100	990	981	973	
Zinc	ppm	ASTM D5185(m)	1150	1167	1203	1198	
Sultur	ppm	ASTM D5185(m)	2600	2614	2421	2474	
Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	3	5	5	
Sodium	ppm	ASTM D5185(m)		1	2	2	
Potassium	ppm	ASTM D5185(m)	>20	<1	▲ 8	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0	0.8	0.7	
Nitration	Abs/cm	ASTM D7624*	>20	4.5	9.7	9.0	
Nitration(Diff)	Abs/cm	ASTM E2412*	< 25	0.6	12.7	11.1	
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.3	21.0	20.6	
Sulfation(Diff) :30:43) Rev: 1	Abs/cm	ASTM E2412*		0	5.3 4.1 Submitted Bv: William Ridlev		



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Laboratory

Laboratory

Sample No.

Submitted By: William Ridley Page 2 of 2