

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **91061** Component

Diesel Engine

AMERIGUARD 15W40 (10 GAL)

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Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.

Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Sodium and/or potassium levels are high. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. Test for glycol is negative.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

				May2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0003613		
Sample Date		Client Info		12 May 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	1	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<u> </u>		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	4		
Lead	ppm	ASTM D5185m	>30	5		
Copper	ppm	ASTM D5185m	>150	61		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		103		
Barium	ppm	ASTM D5185m		3		
Molybdenum	ppm	ASTM D5185m		13		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		102		
Calcium	ppm	ASTM D5185m		1746		
Phosphorus	ppm	ASTM D5185m		743		
Zinc	ppm	ASTM D5185m		905		
Sulfur	ppm	ASTM D5185m		4634		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4 3		
Sodium	ppm	ASTM D5185m		13		
Potassium	ppm	ASTM D5185m	>20	<u> </u>		
Glycol	%	*ASTM D2982		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624		8.1		
Sulfation	Abs/.1mm	*ASTM D7415		20.7		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Ahs/1mm	*ASTM D741/	>25	15.5		
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	15.5 7.0		

Contact/Location: Matt Ossola - SBTPER



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