

ANSWORTH INC [268737] 94070501083

Diesel Engine

SHELL ROTELLA T 10W30 (--- GAL)

Metal levels are typical for a new component breaking in.

RECOMMENDATION

WEAR

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

WEAR

NORMAI

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0020869	WA0018457	
Sample Date		Client Info		13 May 2024	02 Nov 2022	
Machine Age	hrs	Client Info		132	74	
Oil Age	hrs	Client Info		40	0	
Filter Age	hrs	Client Info		40	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185(m)	>100	10	25	
Chromium	ppm	ASTM D5185(m)	>20	0	<1	
Nickel	ppm	ASTM D5185(m)	>4	0	<1	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	7	1 6	
Aluminum	ppm	ASTM D5185(m)	>20	2	3	
Lead	ppm	ASTM D5185(m)	>40	0	1	
Copper	ppm	ASTM D5185(m)	>330	11	43	
Tin	ppm	ASTM D5185(m)	>15	0	2	
Vanadium	ppm	ASTM D5185(m)		0	0	
Silioon			. 05	40	01	
Potassium	ppm	ASTM D5185(m)	>20	40	10	
Fuel	%	ASTM D3103(III)	>20	0.0	<1.0	
Water	70	WC Method	>0.2	NEG	NEG	
Glycol		WC Method	20.2	NEG	NEG	
Soot %	0/_		<u>\</u> 3	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	55	5.6	
Sulfation	Ahs/ 1mm	ASTM D7415*	>30	15.3	16.4	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185(m)		3	8	
Boron	ppm	ASTM D5185(m)		73	122	
Barium	ppm	ASTM D5185(m)		<1	<1	
Molybdenum	ppm	ASTM D5185(m)		149	16	
Manganese	ppm	ASTM D5185(m)		1	5	
Magnesium	ppm	ASTM D5185(m)		531	627	
Calcium	ppm	ASTM D5185(m)		1359	1332	
Phosphorus	ppm	ASTM D5185(m)		689	693	
Zinc	ppm	ASTM D5185(m)		810	699	
Sulfur	ppm	ASTM D5185(m)		1846	2479	

Abs/.1mm ASTM D7414* >25

ASTM D7279(m) 12.

Oxidation

Visc @ 100°C cSt

CONTAMINATION

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Contact/Location: Danelle Hoffman - DDCDAR Page 1 of 2

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7.4

7.9

7.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Wajax Power Systems CALA Sample No. Received 70 Raddall Avenue : WA0020869 : 22 May 2024 Lab Number : 02636834 Tested Dartmouth, NS : 23 May 2024 ISO 17025:2017 Accredited Unique Number : 5785996 : 23 May 2024 - Kevin Marson CA B3B 1T7 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Danelle Hoffman To discuss this sample report, contact Customer Service at 1-800-268-2131. dhoffman@wajax.com T: (902)468-6200 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (902)468-3325 Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Danelle Hoffman - DDCDAR Page 2 of 2