

OIL ANALYSIS REPORT

SAMPLE INFORMATION

Sample Rating Trend

NORMAL

GREATER MONCTON AIRPORT [6100213638] 44418101

Component

CASTROL 15W40 (--- GAL)

Diesel Engine

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

Fluid Condition

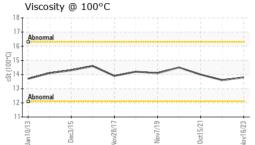
The condition of the oil is acceptable for the time in service.

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Jan 2013	Dec2015	Nov2017	Nov2019	Oct2021	Nov202
1					

Sample Number		Client Info		WA0019375	WA0019126	WA0017094
Sample Date		Client Info		16 Nov 2023	21 Dec 2022	15 Oct 2021
Machine Age	hrs	Client Info		482	443	399
Oil Age	hrs	Client Info		39	44	14
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	2	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	<1	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)		4	2	1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		7	<1	4
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)		120	14	69
Calcium	ppm	ASTM D5185(m)		2152	2555	2135
Phosphorus	ppm	ASTM D5185(m)		851	982	966
Zinc	ppm	ASTM D5185(m)		998	1054	1047
Sulfur	ppm	ASTM D5185(m)		2963	3360	3089
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Sodium	ppm	ASTM D5185(m)	>406	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.8	6.3	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.2	17.8	17.0



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FLUID DEGRADATION		method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	9.9	10.5	9.5	
VISUAL		method	limit/base	current	history1	history2	
Emulsified Water scalar		Visual*	>0.2	NEG	NEG	NEG	
Free Water	ater scalar			NEG	NEG	NEG	
FLUID PROPERTIES		method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)		13.8	13.6	14.0	
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\	/isc @ 100°C	cSt ASTM D7279(m)			13.8	13.6		14.0			
	GRAPHS										
250	Iron (ppm)					Le 100 _T	ad (ppm)				
200	Severe						vere				
_ 150						60 +					
E 100	Abnormal					E	onormal				
50	- ADIOINIA					20					
0						0					
Ü	Jan 10/13 -	Nov28/17-	Nov7/19	0ct15/21-	Nov16/23	Jan10/13	Dec3/15	Nov28/17-	Nov7/19	Oct15/21-	Nov16/23
	7		ž	ő	Nov				ž	ő	Nov
50	Aluminum (pp	лп <i>)</i> 				50 T 7	nromium (ppm)		· · · · · · · · · · · · · · · · · · ·	
40	Severe					40 - Se	evere				
30 Md						30 - A					
20	Abnormal					20 - A	onormal				
10						10-					
0	13		61		23	0 1	15		- 61		23
	Jan 10/13	Nov28/17	Nov7/19	Oct15/21	Nov16/23	Jan 10/13	Dec3/15	Nov28/17	Nov7/19	Oct15/21	Nov16/23
	Copper (ppm))					licon (ppm)			
400 350	Severe Abnormal					80 T Se	evere				
300 250						50					
튎 200						E 40					
150 100						30 - A	onormal				
50 0						10					
0	Jan10/13-	Nov28/17-	Nov7/19	Oct15/21-	Nov16/23	Jan10/13	Dec3/15 -	Nov28/17-	Nov7/19 -	Oct15/21-	Nov16/23
	7		2	00	Nov			Nov	2	00	Nov
18	Viscosity @ 10					8.0 T Se	oot % evere				
17 16	Abnormal					7.0 - Al	onormal				
() 00 15						5.0					
()-15 14		<u> </u>				3.0					
13 12	Abnormal					2.0					
11	2		6	21		0.0	Ln		6	21	
	Jan 10/13 -	Nov28/17	Nov7/19	Oct15/21	Nov16/23	Jan 10/13	Dec3/15	Nov28/17	Nov7/19	Oct15/21	Nov16/23
	-	_			_	,		_			_



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5694846

: 02601761

: WA0019375 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 08 Dec 2023

Diagnosed : 08 Dec 2023 Diagnostician : Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Wajax Power Systems 485 VENTURE DR MONCTON, NB CA E1H 2P4 Contact: Doug Balser

dbalser@wajax.com T: (506)855-5371 F: (506)870-4448