

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MERCEDES C7-B

Component Diesel Engine

Fluid PETRO CANADA DURON UHP 10W40 (--- GAL)

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.

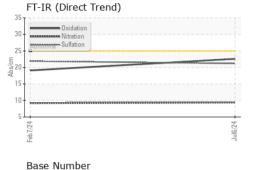
Fluid Condition

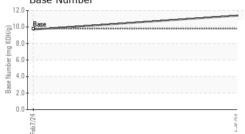
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

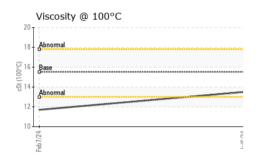
Sample Date Client Info 06 Jul 2024 07 Feb 2024 Machine Age kms Client Info 441900 0 Oil Age kms Client Info N/A N/A Oil Changed Client Info N/A N/A N/A Sample Status Imit/base current history1 history2 Fuel WC Method >5 <1.0 1.4 Water WC Method >5 <1.0 1.4 Norkel ppm ASTM0516000 20 <1 <1 Itanium ppm ASTM0516000 20 1 2 Silver ppm ASTM0516000 20 1 2	SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Machine Age kms Client Info 441900 0 Oil Age Kms Client Info 0 0 Oil Changed Client Info N/A N/A N/A Sample Status Imit/base current NoRIMAL NORIMAL CONTAMINATION method imit/base current Nistory2 NeG Fuel WC Method >0.2 NEG NEG Water WC Method >0.2 NEG NEG Nickel ppm ASTM05165(m) >100 7 11 Nickel ppm ASTM05165(m) >20 <1 <1 Nickel ppm ASTM05165(m) >20 1 2 Auminum ppm ASTM05165(m) 20 1 2 Lead ppm ASTM05165(m) 20 1 2 Au	Sample Number		Client Info		WC0955206	WC0902429	
Oil Age kms Client Info 0 0	Sample Date		Client Info		06 Jul 2024	07 Feb 2024	
Oil Changed Client Info N/A N/A N/A	Machine Age	kms	Client Info		441900	0	
Sample Status NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 1.4 Water WC Method >0.2 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185/m >10.0 7 11 Othornium ppm ASTM D5185/m >20 <1 <1 Nickel ppm ASTM D5185/m >20 <1 <2 Aluminum ppm ASTM D5185/m >20 1 2 Aluminum ppm ASTM D5185/m >40 4 8 Aluminum ppm ASTM D5185/m >40 4 8 Antimony ppm ASTM D5185/m 0 0 <	Oil Age	kms	Client Info		0	0	
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Fuel WC Method >5 <1.0	Sample Status				NORMAL	NORMAL	
Water WC Method >0.2 NEG NEG Glycol WC Method NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >4 0 0 Aluminum ppm ASTM D5185(m) >3 0 0 Aluminum ppm ASTM D5185(m) >40 4 8 Copper ppm ASTM D5185(m) >121 67 Antimony ppm ASTM D5185(m) 0 0 Vanadium pm ASTM D5185(m) 0 0 ADDITIVES method Iimit/base current history1 history2 Barium pm	CONTAMINATION	١	method	limit/base	current	history1	history2
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Tin ppm ASTM D5185(m) >15 <1	Copper		ASTM D5185(m)	>330	121	67	
Antimony ppm ASTM D5185(m) 0 0 Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 2 85 5 Molybdenum ppm ASTM D5185(m) 0 0 <11 Marganese ppm ASTM D5185(m) 0 0 <11 Marganese ppm ASTM D5185(m) 1010 882 44 Calcium ppm ASTM D5185(m) 1070 1348 2284 Zinc ppm ASTM D5185(m) 1270 836 735 Sulfur ppm ASTM D5185(m) 2060 1855 2066 <td< th=""><th>Tin</th><th></th><th>ASTM D5185(m)</th><th>>15</th><th><1</th><th>2</th><th></th></td<>	Tin		ASTM D5185(m)	>15	<1	2	
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Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 2 85 5 Barium ppm ASTM D5185(m) 0 0 <1	Vanadium	ppm	ASTM D5185(m)		0	0	
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 2 85 5 Barium ppm ASTM D5185(m) 0 0 <1 Molybdenum ppm ASTM D5185(m) 60 45 1 Manganese ppm ASTM D5185(m) 0 0 <1 Magnesium ppm ASTM D5185(m) 1010 882 44 Calcium ppm ASTM D5185(m) 1070 1348 2284 Phosphorus ppm ASTM D5185(m) 1070 1348 2284 Zinc ppm ASTM D5185(m) 1270 836 735 Sulfur ppm ASTM D5185(m) 2060 1855 2066 Lithium ppm ASTM D5185(m) >25 2 6 Sodium ppm ASTM D5185(m)	Beryllium	ppm	ASTM D5185(m)		0	0	
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Manganese ppm ASTM D5185(m) 0 0 <1	Barium	ppm	ASTM D5185(m)	0	0	<1	
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Calcium ppm ASTM D5185(m) 1070 1348 2284 Phosphorus ppm ASTM D5185(m) 1150 702 644 Zinc ppm ASTM D5185(m) 1270 836 735 Sulfur ppm ASTM D5185(m) 2060 1855 2066 Lithium ppm ASTM D5185(m) 2060 1855 2066 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 2 6 Sodium ppm ASTM D5185(m) >20 2 4 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0 0 Nitration Abs/cm ASTM D7624* >20 9.4 9.2	Manganese	ppm	ASTM D5185(m)	0	0	<1	
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Sulfur ppm ASTM D5185(m) 2060 1855 2066 Lithium ppm ASTM D5185(m) 2060 1855 2066 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 2 6 Sodium ppm ASTM D5185(m) >25 2 6 Potassium ppm ASTM D5185(m) >20 21 4 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0 0 Nitration Abs/cm ASTM D7624* >20 9.4 9.2	Phosphorus	ppm	ASTM D5185(m)	1150	702	644	
LithiumppmASTM D5185(m)<1	Zinc	ppm	ASTM D5185(m)	1270	836	735	
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>2526SodiumppmASTM D5185(m)<12PotassiumppmASTM D5185(m)>2024INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%ASTM D7844*>300NitrationAbs/cmASTM D7624*>209.49.2	Sulfur	ppm	ASTM D5185(m)	2060	1855	2066	
Silicon ppm ASTM D5185(m) >25 2 6 Sodium ppm ASTM D5185(m) <21	Lithium	ppm	ASTM D5185(m)		<1	<1	
Sodium ppm ASTM D5185(m) <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185(m) >20 2 4 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0 0 Nitration Abs/cm ASTM D7624* >20 9.4 9.2	Silicon	ppm	ASTM D5185(m)	>25	2	6	
INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%ASTM D7844*>300NitrationAbs/cmASTM D7624*>209.49.2	Sodium	ppm	ASTM D5185(m)		<1	2	
Soot % % ASTM D7844* >3 0 0 Nitration Abs/cm ASTM D7624* >20 9.4 9.2	Potassium	ppm	ASTM D5185(m)	>20	2	4	
Nitration Abs/cm ASTM D7624* >20 9.4 9.2	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>3	0	0	
Sulfation Abs/.1mm ASTM D7415* >30 21.2 21.9	Nitration	Abs/cm	ASTM D7624*	>20	9.4	9.2	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	21.9	

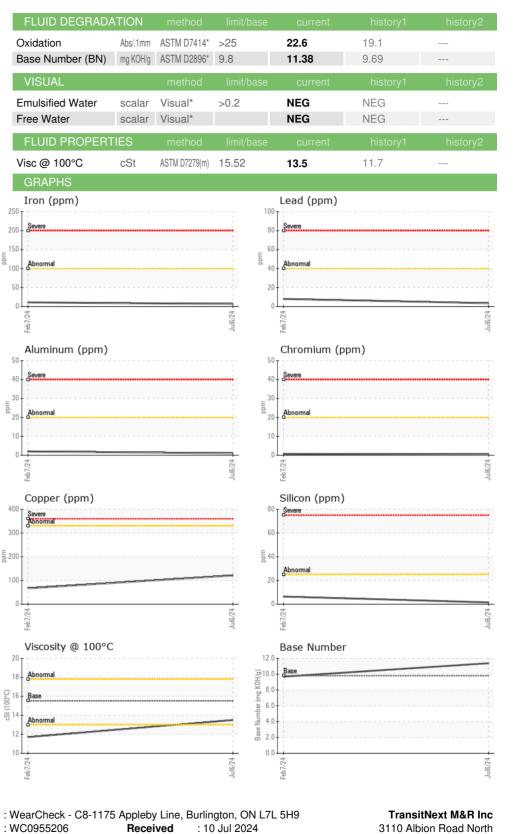


OIL ANALYSIS REPORT









Laboratory Test Package : MOB 2 To discuss this sample report, contact Customer Service at 1-800-268-2131. Chris.Johnston2@atkinsrealis.com 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.

Tested

Diagnosed

: 11 Jul 2024

: 11 Jul 2024 - Wes Davis

Report Id: TRA3100TT [WCAMIS] 02646882 (Generated: 07/11/2024 08:28:54) Rev: 1

CALA

ISO 17025:2017 Accredited

Laboratory

Sample No.

Lab Number : 02646882

Unique Number : 5812434

Contact/Location: Chris Johnston - TRA310OTT Page 2 of 2

Ottawa, ON

T:

F:

CA K1V 9V9

Contact: Chris Johnston