

OIL ANALYSIS REPORT

Sample Rating Trend



2013 MCI 327U Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0111551	PCA0047482	PCA04827727
Sample Date		Client Info		02 Mar 2024	17 Jun 2021	18 Jul 2019
Machine Age	mls	Client Info		380115	352761	324805
Oil Age	mls	Client Info		9545	12561	18871
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT		method	limit/base	current	history1	history2
			>3.0		<1.0	<1.0
Fuel Water		WC Method		<1.0 NEG	<1.0 NEG	<1.0 NEG
		WC Method	>0.2	NEG		
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	36	44	25
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	5	2
Lead	ppm	ASTM D5185m	>40	3	4	21
Copper	ppm	ASTM D5185m	>330	1	2	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m			0	5
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	64	59
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	972	1027	1001
Calcium	ppm	ASTM D5185m	1070	1076	1201	1056
Phosphorus	ppm	ASTM D5185m	1150	1028	1118	993
Zinc	ppm	ASTM D5185m	1270	1223	1313	1194
Sulfur	ppm	ASTM D5185m	2060	3070	2818	2322
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	19	10	11
Sodium	ppm	ASTM D5185m		2	4	4
Potassium	ppm	ASTM D5185m	>20	1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.8	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.2	12.7	12.3
Sulfation			>30	20.8	23.8	23.9
Sandion	Abs/.1mm					
	Abs/.1mm					
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	DATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 17.4	history1 19.2	history2 19.9
	DATION	method	limit/base	current	history1	history2

Report Id: BROAMS [WUSCAR] 06119731 (Generated: 03/18/2024 14:00:37) Rev: 1

Contact/Location: CONNIE WILBUR - BROAMS



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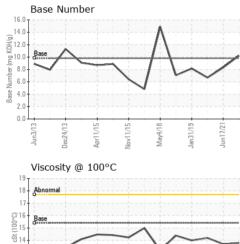
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Jun3/13

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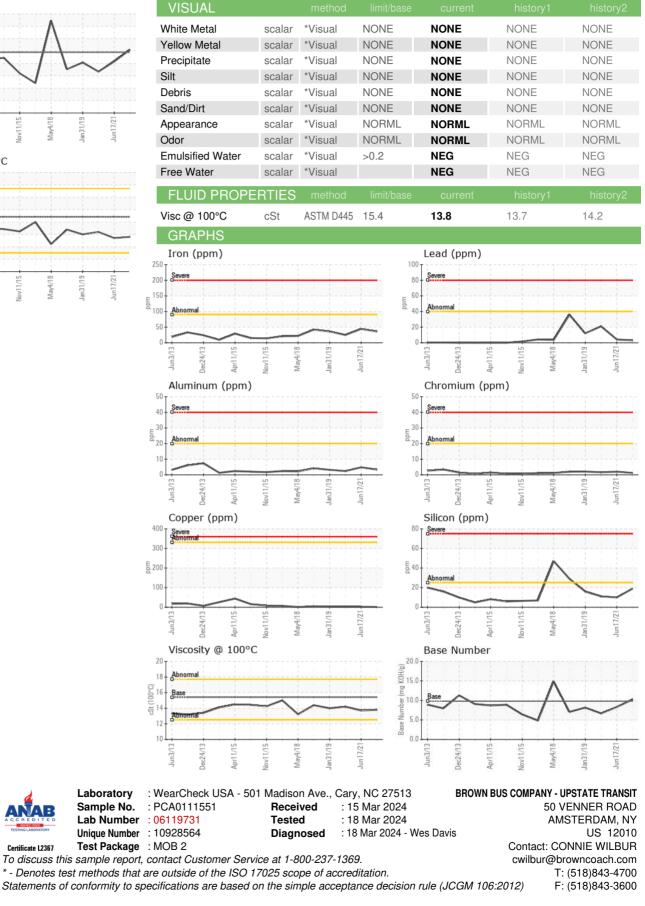
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