

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



BTC FOODS INC Machine Id FREIGHTLINER 360606

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (20 QTS)

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

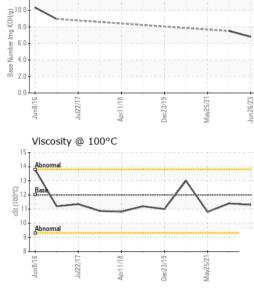
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

714 3111 10W30 (2)	0 (410)	Jun2016	Jul2017 Apr2018	Dec2019 May2021	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0100780	PCA0076743	PCA0051561
Sample Date		Client Info		26 Jun 2023	25 Oct 2022	25 May 2021
Machine Age	mls	Client Info		16184	8309	118216
Oil Age	mls	Client Info		16184	8309	18000
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>90	42	25	15
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	6	7	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	5	6	4
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	2	2	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	6	8	80
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	60	57	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	956	761	748
Calcium	ppm	ASTM D5185m	1050	1239	1225	1412
Phosphorus	ppm	ASTM D5185m	995	1049	956	990
Zinc	ppm	ASTM D5185m	1180	1346	1175	1216
Sulfur	ppm	ASTM D5185m	2600	3700	3228	2533
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		4	<1	2
Potassium	ppm	ASTM D5185m	>20	6	4	6
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	1.3	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.5	12.0	9
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	24.1	20.6
FLUID DEGRA	NOITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8	21.4	15.8
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	7.5	



Base Number

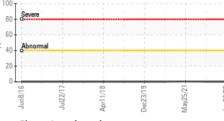
OIL ANALYSIS REPORT

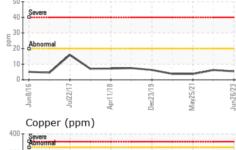


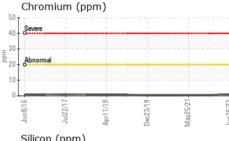
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	DTIES	method	limit/hase	current	history 1	history 2

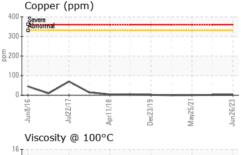
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Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.4	10.8

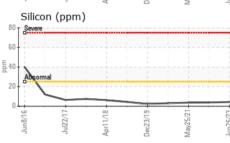
Iron (ppm)					Lead (ppm)
200 Severe						Severe
E 150						E 60
100 - Abnorma						Abnormal 40
50-					-	20
0		8	- 6	-		0
Jun8/1	Jul22/1	Apr11/1	Dec23/1	May25/2	Jun26/2	Jun8/1
	num (p	pm)				Chromium (
Severe						Severe
= 30 -						= 30

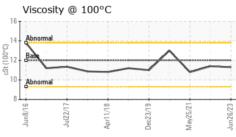


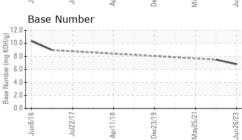














Laboratory Sample No. Lab Number **Unique Number**

: PCA0100780 : 05891979 : 10547789

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jul 2023 Diagnosed : 07 Jul 2023 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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