

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

FREIGHTLINER 384145

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 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

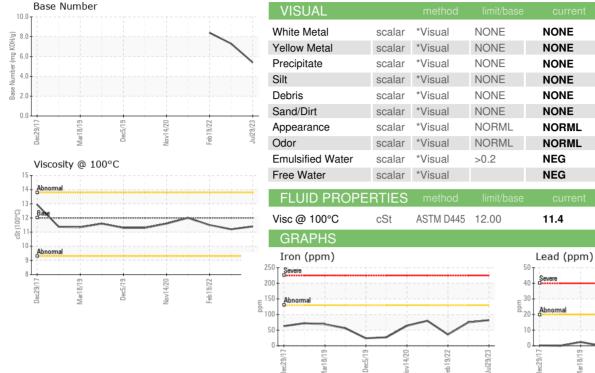
Fluid Condition

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

GAL)		Dec2017	Mar2019 Dec2019	Nov2020 Feb2022	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0098940	PCA0078963	PCA0064795
Sample Date		Client Info		29 Jul 2023	15 Oct 2022	19 Feb 2022
Machine Age	mls	Client Info		181291	163190	146805
Oil Age	mls	Client Info		18101	16385	9963
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>130	82	75	36
Chromium	ppm	ASTM D5185m	>10	2	6	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	5	6	6
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>125	2	2	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	8	0	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	67	65	60
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	950	976	979	1021
Calcium	ppm	ASTM D5185m	1050	1244	1134	1201
Phosphorus	ppm	ASTM D5185m	995	1009	1000	1113
Zinc	ppm	ASTM D5185m	1180	1285	1310	1303
Sulfur	ppm	ASTM D5185m	2600	3416	3260	2963
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	4
Sodium	ppm	ASTM D5185m		4	3	2
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.7	0.8	1
Nitration	Abs/cm	*ASTM D7624	>20	12.7	12.1	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	23.7	21.9
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8	20.6	17.9
Base Number (BN)	mg KOH/g	ASTM D2896		5.4	7.3	8.4



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200						40 - Severe	1				
150 · 100 ·	Abnormal			L		20 Abnom	ıal				
50				\/		10-					
0.	Dec29/17	Dec5/19 +	Nov14/20 -	Feb19/22 +	Jul29/23	Dec29/17	Mar18/19 -	Dec5/19	Nov14/20	Feb19/22	Jul29/23
40	Aluminum (pp	m)				Chro	mium (p	pm)			
30	Severe					20 Severe					
튎 20	Abnormal					15 Abnom	nal				
10				<u> </u>		5 +					
0.	Dec29/17	Dec5/19 + - /	Nov14/20	Feb19/22	Jul29/23	Dec29/17	Mar18/19 +	Dec5/19	Nov14/20	Feb19/22	Jul29/23
	Copper (ppm)		Z	ш.		Silico	≥ n (ppm)		z	ш.	,
300 ·	Severe					50 Severe					
200 · E 150 ·	Abnormal					40 - Anom					
100	Automa					20	iai				
50 ·						10				-	
	Dec29/17	Dec5/19	Nov14/20	Feb 19/22	Jul29/23	Dec29/17	Mar18/19	Dec5/19 -	Nov14/20	Feb19/22	Jul29/23
	Viscosity @ 10	00°C	_			Base	Numbe	r	_		
16	Abnormal	1				(B)/HO 8.0					
(0.001)	Base					8.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0					/
 55						4.0					
10	Abnormal					8 2.0					





Report Id: MILPEN [WUSCAR] 05930592 (Generated: 08/22/2023 18:40:13) Rev: 1

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

: PCA0098940 : 05930592 : 10615863

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 22 Aug 2023

Vov14/20

: 22 Aug 2023 Diagnostician : Wes Davis

eb19/22

Test Package : MOB 1 (Additional Tests: TBN)

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)

MILLER TRUCK LEASING #112

1504 MAINLINE DR CINNAMINSON, NJ US 08077

Contact: MIKE BOYER mboyer@millertransgroup.com

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Contact/Location: MIKE BOYER - MILPEN

Mar18/19

Dec5/19