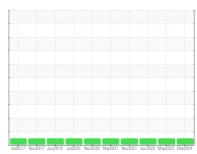


OIL ANALYSIS REPORT

Sample Rating Trend







FREIGHTLINER 473914

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (18 QTS)

DIAGNOSIS

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.

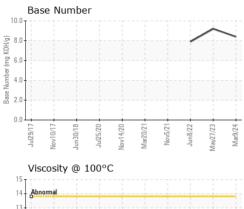
Fluid Condition

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

Jud'017 Nord'017 Jun'2018 Jud'000 Nord'020 Mad'021 Nord'021 Jun'2022 May'022 May'02 M						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0119031	PCA0095761	PCA0073278
Sample Date		Client Info		09 Mar 2024	27 May 2023	08 Jun 2022
Machine Age	mls	Client Info		7954	206435	196355
Oil Age	mls	Client Info		7954	206435	8000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	41	22	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	1	9	3
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	<1	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	7	13	30
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	64	55	55
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	950	844	793	723
Calcium	ppm	ASTM D5185m	1050	1322	1220	1104
Phosphorus	ppm	ASTM D5185m	995	1147	1029	915
Zinc	ppm	ASTM D5185m	1180	1278	1194	1090
Sulfur	ppm	ASTM D5185m	2600	3431	3314	2874
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>25	5	3	3
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	5	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	2.1	0.9	0.3
Nitration	Abs/cm	*ASTM D7624	>20	12.2	10.3	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	21.6	18.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	18.2	13.2
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	9.2	7.9



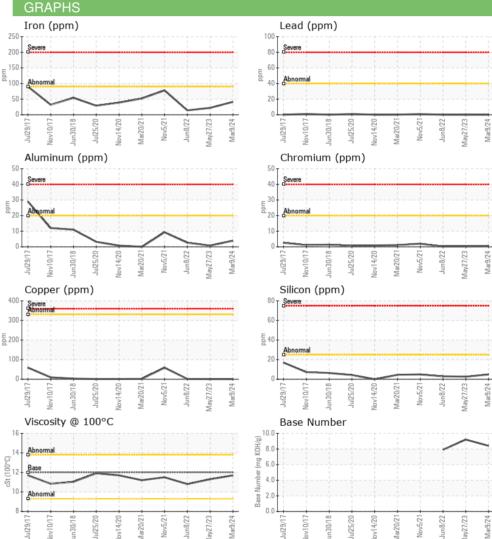
OIL ANALYSIS REPORT



VISUAL		method				history2
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
	DTIES	mothod	limit/bass	ourropt	hioton/1	hiotory?

FLUID PROPI	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	12.00	11.7	11.3	10.8

FL			
Visc (-	
GR			
Iror		+	
200 Sever	24	-	
150 Abos	And DA	M. M.	May27/23
100			
50			
Jul29/17			
Aluı			







Laboratory Sample No.

Lab Number : 06120622 Unique Number : 10929455

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0119031

Received **Tested** Diagnosed

: 18 Mar 2024 : 19 Mar 2024

: 19 Mar 2024 - Wes Davis

MILLER TRUCK LEASING #118 2196 BENNETT ROAD PHILADELPHIA, PA US 19116

Contact: ROSTY VITER rviter@millertransgroup.com

T: (215)552-9832

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) F: (215)552-9892

Report Id: MILPHINE [WUSCAR] 06120622 (Generated: 03/19/2024 12:18:25) Rev: 1

Contact/Location: ROSTY VITER - MILPHINE