

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



FREIGHTLINER 21

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 LTR)

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.

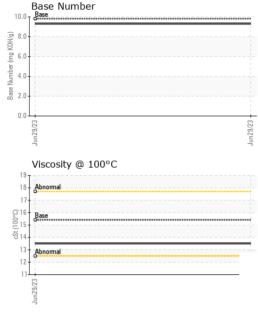
.TR)				Jun 2023		
SAMPLE INFOR	RMATION	\ method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0100685		
Sample Date		Client Info		29 Jun 2023		
Machine Age	mls	Client Info		437299		
Oil Age	mls	Client Info		15000		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINA	TION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>80	16		
Chromium	ppm	ASTM D5185m	>5	2		
Vickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	<1		
_ead	ppm	ASTM D5185m	>30	14		
Copper	ppm	ASTM D5185m	>150	4		
Tin	ppm	ASTM D5185m	>5	6		
Vanadium	ppm	ASTM D5185m	/5	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	2		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	58		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	856		
Calcium	ppm	ASTM D5185m	1070	1134		
Phosphorus	ppm	ASTM D5185m	1150	1006		
Zinc	ppm	ASTM D5185m	1270	1174		
Sulfur	ppm	ASTM D5185m	2060	3118		
CONTAMINAL	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	19		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	1		
INFRA-RED	_	method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	6.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5		
FLUID DEGRA	ADATION	\ method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0		
Described (BAD)		AOTA A DOGGO	0.0			

9.3

Base Number (BN) mg KOH/g ASTM D2896 9.8



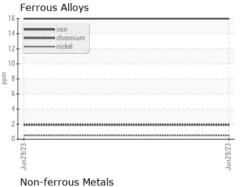
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VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	LIGHT		
Sand/Dirt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

13.5

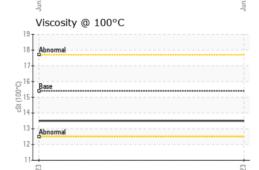
Visc @	100°C
GBA	рце

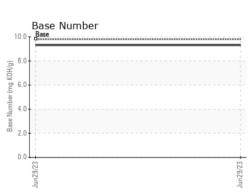


cSt

ASTM D445 15.4











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10545677 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0100685 : 05889867

Received

Diagnosed

: 05 Jul 2023 : 06 Jul 2023 Diagnostician : Don Baldridge

A Truck Repair 9349 China Grove Church Road Pineville, NC US 28134

Contact: Vlad Melnichuk shop@migway.com T: (980)255-3200

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)