

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

#### 3N2714 Component

#### Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- GAL)

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### 🔺 Wear

Cylinder, crank, or cam shaft wear is indicated.

#### 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 acceptable for the time in service.

SAMPLE INFORM	ΙΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0123902	PCA0106310	PCA0098016
Sample Date		Client Info		18 Apr 2024	11 Oct 2023	09 Jun 2023
Machine Age	mls	Client Info		88799	65935	50753
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>A</b> 125	83	132
Chromium	ppm	ASTM D5185m	>20	4	3	3
Nickel	ppm	ASTM D5185m	>4	2	1	1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	47	32	42
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	25	19	38
Tin	ppm	ASTM D5185m	>15	5	3	7
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	11	15	20
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	56	53	48
Manganese	nnm	LOTUDELOE				
Marine a stress	ppm	ASTM D5185m	0	7	6	11
Magnesium	ppm	ASTM D5185m ASTM D5185m	0 950	7 693	6 812	11 669
Calcium						
0	ppm	ASTM D5185m	950	693	812	669
Calcium	ppm ppm	ASTM D5185m ASTM D5185m	950 1050	693 1493	812 1611	669 1839
Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995	693 1493 778	812 1611 935	669 1839 826
Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180	693 1493 778 1056	812 1611 935 1252	669 1839 826 1118
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180 2600 limit/base	693 1493 778 1056 2397	812 1611 935 1252 2746	669 1839 826 1118 2861
Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	950 1050 995 1180 2600 limit/base	693 1493 778 1056 2397 current	812 1611 935 1252 2746 history1	669 1839 826 1118 2861 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180 2600 limit/base >25	693 1493 778 1056 2397 current 12	812 1611 935 1252 2746 history1 9	669 1839 826 1118 2861 history2 19
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180 2600 limit/base >25	693 1493 778 1056 2397 <u>current</u> 12 3	812 1611 935 1252 2746 history1 9 5	669 1839 826 1118 2861 history2 19 6
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180 2600 limit/base >25 >20	693 1493 778 1056 2397 current 12 3 71	812 1611 935 1252 2746 history1 9 5 47	669 1839 826 1118 2861 history2 19 6 60
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180 2600 limit/base >25 >20 limit/base	693 1493 778 1056 2397 current 12 3 71 current	812 1611 935 1252 2746 history1 9 5 47 history1	669 1839 826 1118 2861 history2 19 6 6 60 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180 2600 limit/base >25 >20 limit/base >3	693 1493 778 1056 2397 current 12 3 71 current 1.1	812 1611 935 1252 2746 history1 9 5 47 history1 0.8	669 1839 826 1118 2861 history2 19 6 6 60 history2 0.9
Calcium Phosphorus Zinc Sulfur CONTAMINAN Solicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180 2600 limit/base >25 20 limit/base >3 >20	693 1493 778 1056 2397 current 12 3 71 current 1.1 1.1 15.3	812 1611 935 1252 2746 history1 9 5 47 history1 0.8 11.5	669 1839 826 1118 2861 history2 19 6 6 60 history2 0.9 13.1
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7845	950 1050 995 1180 2600 <b>Iimit/base</b> >25 >20 <b>Iimit/base</b> >3 >20 >30 <b>Iimit/base</b>	693 1493 778 1056 2397 current 12 3 71 current 1.1 1.1 15.3 27.2	812 1611 935 1252 2746 history1 9 5 47 history1 0.8 11.5 22.8	669 1839 826 1118 2861 history2 19 6 6 60 history2 0.9 13.1 25.3
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAC	ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm Abs/cm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7624 *ASTM D7615	950 1050 995 1180 2600 <b>Iimit/base</b> >25 >20 <b>Iimit/base</b> >3 >20 >30 <b>Iimit/base</b>	693 1493 778 1056 2397 current 12 3 71 current 1.1 15.3 27.2 current	812 1611 935 1252 2746 history1 9 5 47 history1 0.8 11.5 22.8 history1	669 1839 826 1118 2861 history2 19 6 6 60 history2 0.9 13.1 25.3 history2



# **OIL ANALYSIS REPORT**

scalar

method

\*Visual

limit/base

NONE

current

NONE

NONE

NONE

NONE

NONE

NONE

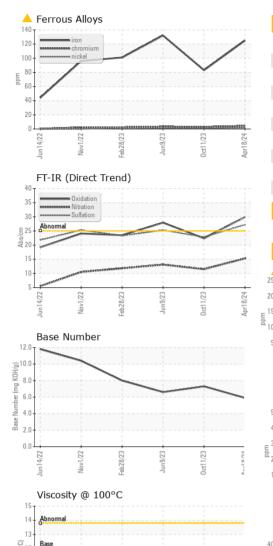
NORML

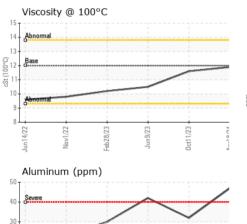
NORML

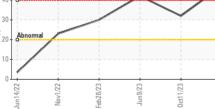
NEG

VISUAL

White Metal



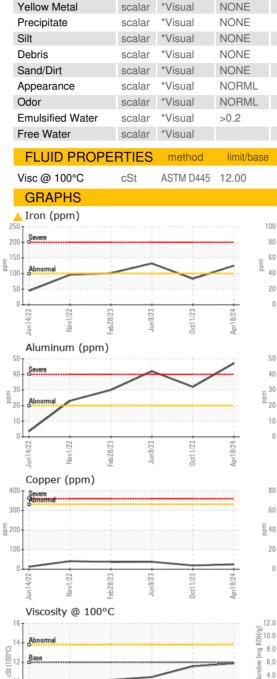


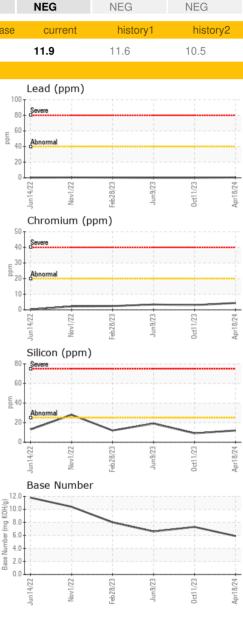


Cer



à	Laboratory
NAB	Sample No.
CREDITED	Lab Number
STING LABORATORY	Unique Number
tificate L2367	Test Package





history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

**39 INDUSTRIAL AVE** HASBROUCK HEIGHTS, NJ US 07604 Contact: MIKE LONGETTE

mlongette@millertransgroup.com

**MILLER TRUCK LEASING #119** 

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

Nov1/22

Feb28/23

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: PCA0123902

:06157236

: 10992659

8

Jun 14/22

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (201)528-7053

Jun9/23

Received

Diagnosed

Tested

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

0ct11/23 -

Apr18/24 -

: 23 Apr 2024

: 24 Apr 2024

: 25 Apr 2024 - Jonathan Hester

Report Id: MILRUT [WUSCAR] 06157236 (Generated: 04/25/2024 09:32:55) Rev: 1

Contact/Location: MIKE LONGETTE - MILRUT

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