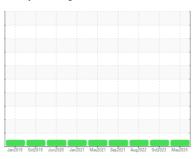


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id

MACK 26
Component
Diesel Engine
Fluid

PETRO CANADA DURON HP 15W40 (8 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

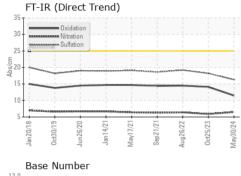
### **Fluid Condition**

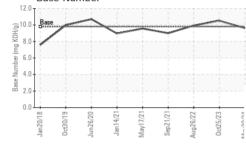
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

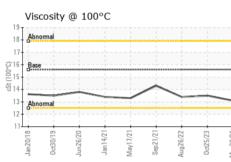
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0098387	PCA0090841	PCA0072068
Sample Date		Client Info		30 May 2024	25 Oct 2023	26 Aug 2022
Machine Age	mls	Client Info		471500	469314	449725
Oil Age	mls	Client Info		2186	4036	4800
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	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 METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	5	18	9
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	15	3
Lead	ppm	ASTM D5185m	>40	0	1	<1
Copper	ppm	ASTM D5185m	>330	0	2	2
Tin	ppm	ASTM D5185m	>15	0	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	6	14
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		29	58	55
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		400	904	869
Calcium	ppm	ASTM D5185m		2018	1053	1159
Phosphorus	ppm	ASTM D5185m		1020	1078	965
Zinc	ppm	ASTM D5185m		1201	1154	1196
Sulfur	ppm	ASTM D5185m		4287	2925	3021
CONTAMINA	NTS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	4	7	5
Sodium	ppm	ASTM D5185m		2	8	2
Potassium	ppm	ASTM D5185m	>20	<1	5	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.5	5.9	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.3	18.2	19.2
FLUID DEGRA	DATION		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.5	14.1	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.61	10.52	9.94



## **OIL ANALYSIS REPORT**





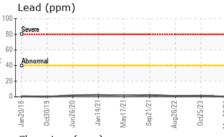


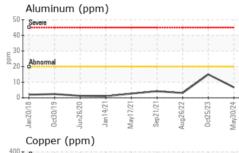
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

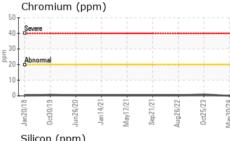
FLUID PROP	ERITES	method			riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	15.6	13.1	13.5	13.4

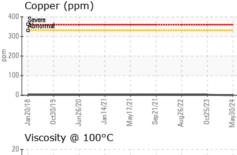
Iror	n (pp	m)						
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50								
0 1	- 61/	20+	12/	12/	/21+	22	23	24
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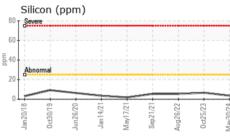
**GRAPHS** 

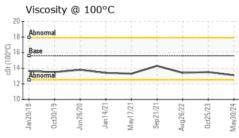


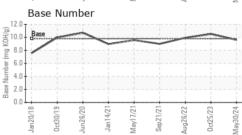
















Certificate 12367

Laboratory Sample No.

Lab Number : 06201635

: PCA0098387 Unique Number : 11063758 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024 **Tested** : 07 Jun 2024

Diagnosed

: 09 Jun 2024 - Don Baldridge

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)

T: (617)435-7199 F: (781)337-4150 Submitted By: JOHN LANG

J F PRICE

US 02189

611 PLEASANT ST

E WEYMOUTH, MA

Contact: JOHN LANG

gnalj1970@comcast.net