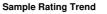


# **OIL ANALYSIS REPORT**





## Machine Id 736803

Elui

Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- QTS)

### DIAGNOSIS

#### A 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. All other component wear rates are normal.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

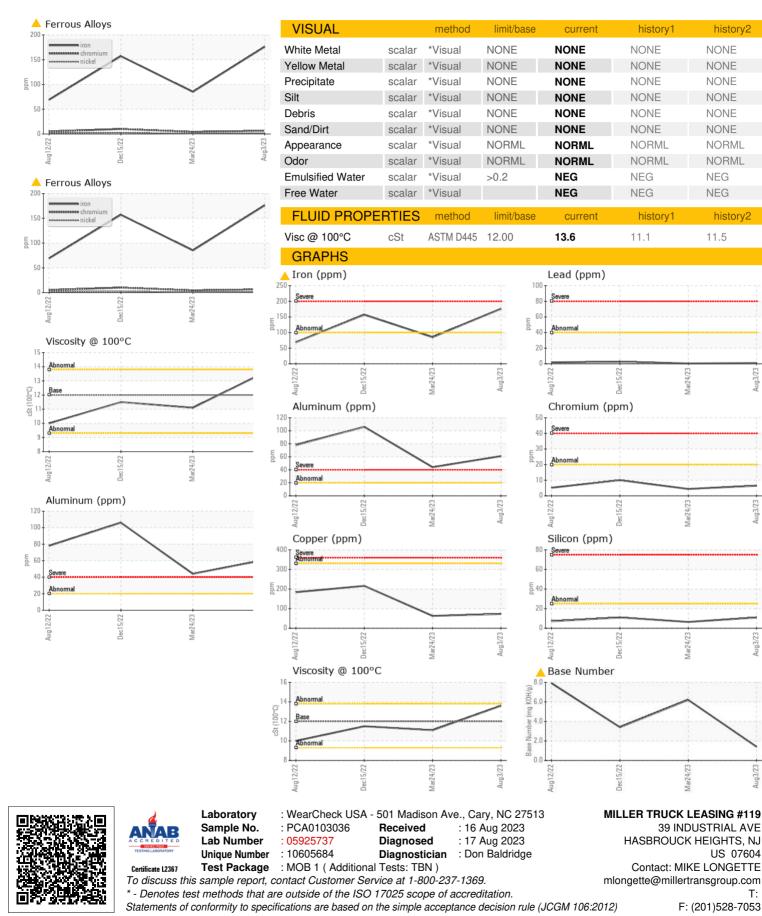
Fluid Condition

The BN level is low.

ITS)		Aug202	2 Dec2022	Mar2023 Au	ug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103036	PCA0094285	PCA0088089
Sample Date		Client Info		03 Aug 2023	24 Mar 2023	15 Dec 2022
Machine Age	mls	Client Info		153886	101451	77267
Oil Age	mls	Client Info		0	0	0
Oil Changed	iiiio	Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
		method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
Glycol		WC Method	>5	NEG	NEG	NEG
2		_		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<mark>人</mark> 176	85	<b>1</b> 57
Chromium	ppm	ASTM D5185m		6	4	10
Nickel	ppm	ASTM D5185m	>4	1	<1	3
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	61	44	106
Lead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m	>330	73	63	216
Tin	ppm	ASTM D5185m	>15	4	3	12
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	7	10	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	51	45
Manganese	ppm	ASTM D5185m	0	4	3	6
Magnesium	ppm	ASTM D5185m	950	885	828	525
Calcium	ppm	ASTM D5185m	1050	1446	1427	1823
Phosphorus	ppm	ASTM D5185m	995	945	855	683
Zinc	ppm	ASTM D5185m	1180	1241	1229	889
Sulfur	ppm	ASTM D5185m	2600	2336	2096	1785
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	6	11
Sodium	ppm	ASTM D5185m		6	3	10
Potassium	ppm	ASTM D5185m	>20	137	89	272
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.4	1.1	1.8
Nitration	Abs/cm	*ASTM D7624	>20	22.6	11.6	19.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.4	23.4	30.3
FLUID DEGRA		method	limit/base	current	history1	history2
	AL / 4	*****	05		o / =	40.4
Oxidation	Abs/.1mm	*ASTM D7414	>25	48.0	24.7	42.1



# **OIL ANALYSIS REPORT**



Contact/Location: MIKE LONGETTE - MILRUT

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