

# **OIL ANALYSIS REPORT**

Sample Rating Trend





## Machine Id MACK 10092

Component Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- 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.

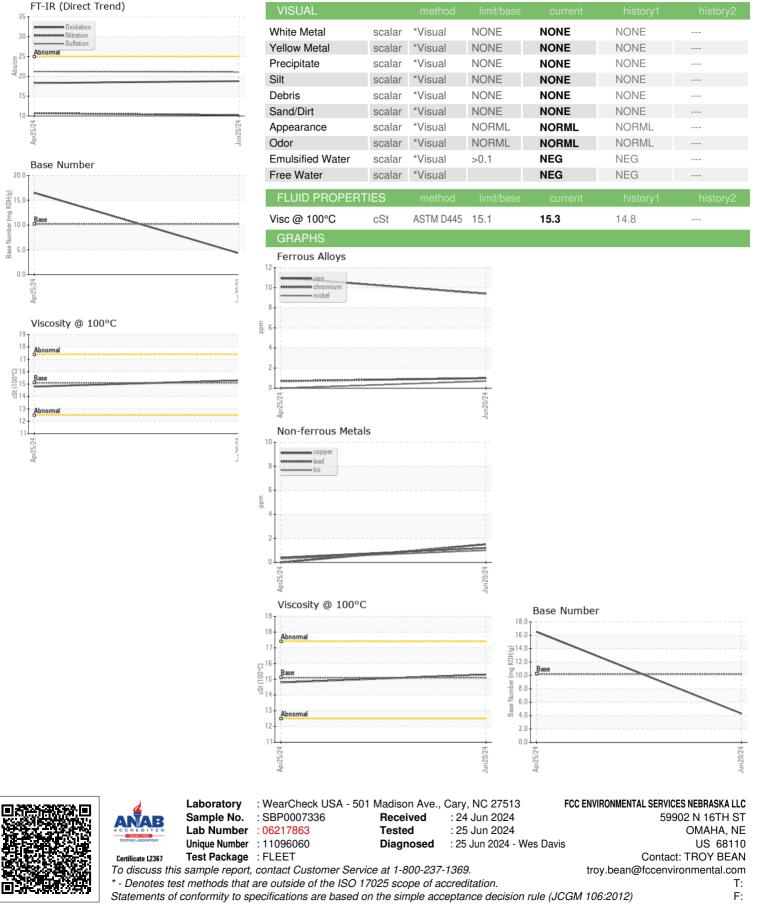
### Fluid Condition

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

SAMPLE INFORM	<i>I</i> ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007336	SBP0007319	
Sample Date		Client Info		20 Jun 2024	25 Apr 2024	
Machine Age	hrs	Client Info		7428	7021	
Oil Age	hrs	Client Info		407	521	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	11	
Chromium	ppm	ASTM D5185m	>5	1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m	>5	<1	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>25	5	2	
Lead	ppm	ASTM D5185m	>40	2	0	
Copper	ppm	ASTM D5185m	>150	1	<1	
Tin	ppm	ASTM D5185m	>4	1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	21	7	
Barium	ppm	ASTM D5185m	5	1	0	
Molybdenum	ppm	ASTM D5185m	50	55	50	
Manganese	ppm	ASTM D5185m	0	1	<1	
Magnesium	ppm	ASTM D5185m	560	543	529	
Calcium	ppm	ASTM D5185m	1510	1639	1720	
Phosphorus	ppm	ASTM D5185m	780	690	733	
Zinc	ppm	ASTM D5185m	870	958	979	
Sulfur	ppm	ASTM D5185m	2040	2281	2837	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	8	
Sodium	ppm	ASTM D5185m		2	4	
Potassium	ppm	ASTM D5185m	>20	7	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	10.2	10.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	21.2	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	18.3	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.3	16.5	



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Submitted By: TROY BEAN

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