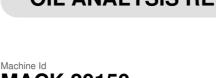
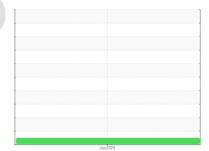


OIL ANALYSIS REPORT





Sample Rating Trend



MACK 20150
Component
Natural Gas Engine
Fluid
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

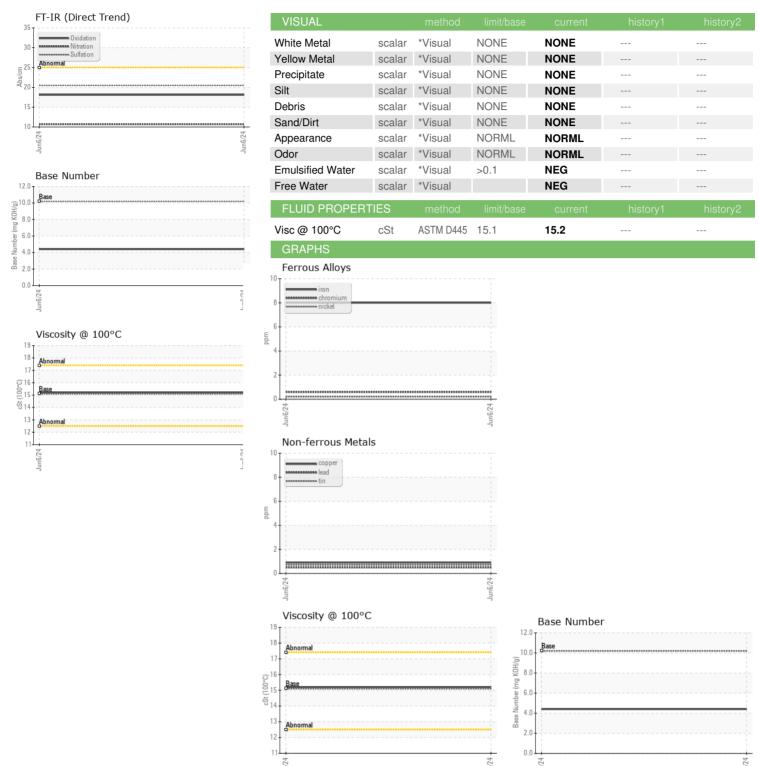
Fluid Condition

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

SAMPLE INFORMATION Sample Number Sample Date Machine Age hrs Oil Age hrs Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron ppm Chromium ppm	Client Info Client Info Client Info Client Info Client Info We Method	limit/base	current SBP0007334 06 Jun 2024 8018 453 Changed NORMAL current NEG current	history1 history1	history2 history2
Sample Date Machine Age hrs Oil Age hrs Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron ppm	Client Info Client Info Client Info Client Info WC Method	limit/base >0.1	06 Jun 2024 8018 453 Changed NORMAL current	 history1	
Machine Age hrs Oil Age hrs Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron ppm	Client Info Client Info Client Info Method WC Method	limit/base >0.1	8018 453 Changed NORMAL current	 history1	
Oil Age hrs Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron ppm	Client Info Client Info method WC Method method	limit/base >0.1	453 Changed NORMAL current	 history1	
Oil Changed Sample Status CONTAMINATION Water WEAR METALS	Client Info method WC Method method	limit/base >0.1	Changed NORMAL current NEG	 history1	
Sample Status CONTAMINATION Water WEAR METALS Iron ppn	method WC Method method	limit/base >0.1	current NEG	history1	
CONTAMINATION Water WEAR METALS	WC Method	limit/base >0.1	current NEG	history1	
Water WEAR METALS	WC Method	>0.1	NEG		history2
WEAR METALS	method				
ron ppn		limit/base	current	11.4	
- 1-1-	n ASTM D5185m		oarront	history1	history2
Chromium ppn	= 0	>50	8		
	n ASTM D5185m	>5	<1		
Nickel ppn	n ASTM D5185m	>4	<1		
Titanium ppn	n ASTM D5185m	>5	<1		
Silver ppn	n ASTM D5185m	>3	0		
Aluminum ppn	n ASTM D5185m	>25	3		
Lead ppn	n ASTM D5185m	>40	<1		
Copper ppn	n ASTM D5185m	>150	<1		
Гіп ррп	n ASTM D5185m	>4	<1		
/anadium ppn	n ASTM D5185m		0		
Cadmium ppn	n ASTM D5185m		<1		
ADDITIVES	method	limit/base	current	history1	history2
Boron ppn	n ASTM D5185m	50	10		
Barium ppn	n ASTM D5185m	5	1		
Molybdenum ppn	n ASTM D5185m	50	54		
Manganese ppn	n ASTM D5185m	0	<1		
Magnesium ppn	n ASTM D5185m	560	542		
Calcium ppn	n ASTM D5185m	1510	1615		
Phosphorus ppn	n ASTM D5185m	780	730		
Zinc ppn	n ASTM D5185m	870	969		
Sulfur ppn	n ASTM D5185m	2040	2529		
Sultur ppn					
CONTAMINANTS	method	limit/base	current	history1	history2
CONTAMINANTS			current 4	history1	history2
CONTAMINANTS Silicon ppn	n ASTM D5185m	>25		history1 	history2
CONTAMINANTS Silicon ppn Sodium ppn	n ASTM D5185m n ASTM D5185m	>25	4		
CONTAMINANTS Silicon ppn Sodium ppn	n ASTM D5185m n ASTM D5185m	>25	4 2		
CONTAMINANTS Silicon ppn Sodium ppn Potassium ppn INFRA-RED	n ASTM D5185m n ASTM D5185m n ASTM D5185m	>25 >20	4 2 2		
CONTAMINANTS Silicon ppn Sodium ppn Potassium ppn INFRA-RED	n ASTM D5185m n ASTM D5185m n ASTM D5185m method *ASTM D7844	>25 >20 limit/base	4 2 2 current	 history1	history2
CONTAMINANTS Silicon ppn Sodium ppn Potassium ppn INFRA-RED Soot % % Nitration Abs/	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 /cm *ASTM D7624	>25 >20 limit/base	4 2 2 current	history1	history2
CONTAMINANTS Silicon ppn Sodium ppn Potassium ppn INFRA-RED Soot % % Nitration Abs/	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 /cm *ASTM D7624 1mm *ASTM D7415	>25 >20 limit/base	4 2 2 current 0 10.7	 history1 	history2
CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm INFRA-RED Soot % % Nitration Abs/.	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 /cm *ASTM D7624 1mm *ASTM D7415 N method	>25 >20 limit/base >20 >30	4 2 2 current 0 10.7 20.5	 history1 	 history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06204113

: SBP0007334 Unique Number : 11071574

Received **Tested** Test Package : FLEET

: 10 Jun 2024 : 11 Jun 2024 Diagnosed

: 11 Jun 2024 - Wes Davis

59902 N 16TH ST OMAHA, NE US 68110

FCC ENVIRONMENTAL SERVICES NEBRASKA LLC

Contact: TROY BEAN troy.bean@fccenvironmental.com

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:

F: