

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id MACK 487 Component

Diesel Engine

PETRO CANADA 10W30 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. 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. 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.

0 (GAL)				Oct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0072101		
Sample Date		Client Info		24 Oct 2023		
Machine Age	kms	Client Info		1585		
Dil Age	kms	Client Info		700		
Dil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	23		
Chromium	ppm	ASTM D5185(m)	>20	<1		
lickel	ppm	ASTM D5185(m)	>5	2		
Fitanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	2		
Aluminum	ppm	ASTM D5185(m)	>20	4		
ead	ppm	ASTM D5185(m)	>40	4		
Copper	ppm	ASTM D5185(m)	>330	99		
īn	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		8		
Barium	ppm	ASTM D5185(m)		<1		
Nolybdenum	ppm	ASTM D5185(m)		67		
/anganese	ppm	ASTM D5185(m)		<1		
/agnesium	ppm	ASTM D5185(m)		933		
Calcium	ppm	ASTM D5185(m)		1109		
Phosphorus	ppm	ASTM D5185(m)		901		
Zinc	ppm	ASTM D5185(m)		1142		
Sulfur	ppm	ASTM D5185(m)		2104		
ithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	16		
Fuel	%	ASTM D7593*	>3.0	0.5		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.3		
Vitration	Abs/cm	ASTM D7624*	>20	8.6		





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