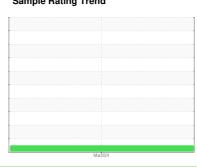


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 100-048

Component Diesel Engine

PETRO CANADA 10W30 (--- GAL)

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Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

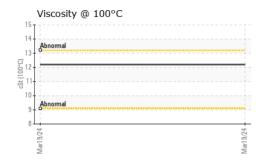
Fluid Condition

The condition of the oil is acceptable for the time in service.

			1	Mar2024		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0920788		
Sample Date		Client Info		19 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	6		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>4	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	1		
_ead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)	>330	81		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES						
Boron		method	limit/base	current	history1	history2
201011	ppm	method ASTM D5185(m)	limit/base	current 0	history1	history2
	ppm ppm		limit/base			
Barium	• •	ASTM D5185(m)	limit/base	0		
Barium Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)	limit/base	0 0		
Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 59		
Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 59 0		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 59 0 974		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 59 0 974 1068		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base	0 0 59 0 974 1068 980		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base	0 0 59 0 974 1068 980		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base	0 0 59 0 974 1068 980 1170 2425		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)		0 0 59 0 974 1068 980 1170 2425	 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base	0 0 59 0 974 1068 980 1170 2425 <1	 history1	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m)	limit/base	0 0 59 0 974 1068 980 1170 2425 <1 current	 history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base >25	0 0 59 0 974 1068 980 1170 2425 <1 current 4	history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base >25 >20	0 0 59 0 974 1068 980 1170 2425 <1 current 4 1	history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) METHOD ASTM D5185(m)	limit/base >25 >20 limit/base	0 0 59 0 974 1068 980 1170 2425 <1 current 4 1 0	history1 history1	history2



OIL ANALYSIS REPORT





Visc @ 100°C	cSt	ASTM D7279(m)		12.2		
GRAPHS						
Iron (ppm)				Lead (ppm	n)	
250 Severe			100	C		
E 150			Ed. 40	0+		
	•••••					
50			20	, L		
Mar19,24			Mar19/24	Mar19/24		Mar19/24
			Ma			Ma
Aluminum (ppm)			50		ı (ppm)	
40 Severe			- 40			
Abnormal			E 30	Abnormal		
10			- 10			
24			24			54
Mar19/24			Mar19/24	Mar19/24		Mar19/24
Copper (ppm)			_	Silicon (pp	m)	_
400 T Severe	•••••	***************************************	80			
300			60	1:		
 8 200 			톱 40 20	Abnomai		
0			1			
Mar19/24			Mar19/24	Mar19/24		Mar1 9/24
			Mar			Mar
Viscosity @ 100°	С		6.0	Soot %		
1				Severe		
(3) 14 Abnormal (3) 12 (3) 10			\$2.4.0 \$2.0 \$2.0	Abnormal		
Abnormal			°° 2.0)		
8			- 0.0 25			47
Mar19/24			Mar19/24	Mar19/24		Mar19/24
2			2	2		≥



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0920788 Lab Number : 02624102 Unique Number : 5749221

Received **Tested**

Diagnosed Test Package: MOBCE (Additional Tests: Visual)

: 25 Mar 2024 : 25 Mar 2024

: 25 Mar 2024 - Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 RONI/IRON SHORE EXCAVATING LTD. 100 MACINTOSH BLVD VAUGHAN, ON CA L4K 4P3

Contact: Service Team service.team@roni.ca

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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