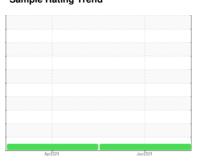


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
MCI 1903

Component
Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (40 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

Contaminants

There is no indication of any contamination in the oil.

Oil Condition

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

			Apr2024	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0939767	WC0916699	
Sample Date		Client Info		05 Jun 2024	18 Apr 2024	
Machine Age	hrs	Client Info		641779	617327	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
			IIIIIIIIII			
PQ	10.10.100	ASTM D8184*	00	0 10	0	
Iron	ppm	ASTM D5185(m)		-	9	
Chromium Nickel	ppm	ASTM D5185(m)	>20 >2	<1 0	<1 0	
Titanium	ppm	ASTM D5185(m) ASTM D5185(m)	>2	<1	0	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>20	2	1	
Lead	ppm	ASTM D5185(m)		2	0	
Copper	ppm ppm	ASTM D5185(m)	>330	<1	<1	
Tin	ppm	ASTM D5185(m)		0	0	
Antimony	ppm	ASTM D5185(m)	>10	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		()	limit/base	OLIVE OF	biotom (1	history ()
Boron	nnm	method ASTM D5185(m)	250	current 14	history1 59	history2
Barium	ppm	ASTM D5185(m)	10	0	0	
Molybdenum	ppm	ASTM D5185(m)	100	14	50	
Manganese	ppm	ASTM D5185(m)	100	<1	0	
Magnesium	ppm	ASTM D5185(m)	450	68	340	
Calcium	ppm	ASTM D5185(m)	3000	2868	2056	
Phosphorus	ppm	ASTM D5185(m)	1150	1115	1045	
Zinc	ppm	ASTM D5185(m)	1350	1328	1268	
Sulfur	ppm	ASTM D5185(m)	4250	3633	2887	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185(m)	>25	5	4	
Sodium	ppm ppm	ASTM D5185(m)	<i>></i> 20	2	2	
Potassium	ppm	ASTM D5185(m)	>20	1	<1	
INFRA-RED	PPIII	method	limit/base	current	history1	history2
	0/					
Soot %	% Ala a /ausa	ASTM D7844*	>6	0.1	0.1	
Nitration	Abs/cm	ASTM D7624*	>20	10.1	8.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.8	21.4	



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: WC0939767 : 02645817 Unique Number : 5803356 Test Package : MOB 3

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 05 Jul 2024

Tested : 11 Jul 2024 Diagnosed : 11 Jul 2024 - Kevin Marson

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.

ONTARIO NORTHLAND GARAGE

567 WALLACE RD NORTH BAY, ON CA P1A 3T3

Contact: Kevin Truchon kevin.truchon@ontarionorthland.ca

T: F:

Submitted By: Kevin Truchon



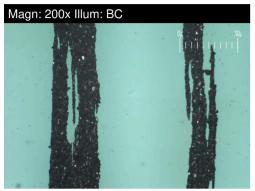
FERROGRAPHY REPORT

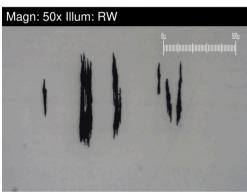
Machine Id

MCI 1903

Component
Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (40 LTR)



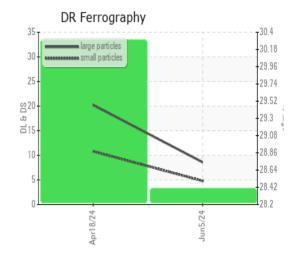




DR-FERROGRAP	HY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		8.6	20.2	
Small Particles		DR-Ferr*		4.8	10.8	
Total Particles		DR-Ferr*	>	13.4	31	
Large Particles Percentage	%	DR-Ferr*		28.4	30.3	
Severity Index		DR-Ferr*		33	190	
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		4	3	
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		2	1	
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		1	1	
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*		1		
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1	1	
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		2	2	

WEAR

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.



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