

OIL ANALYSIS REPORT

Sample Rating Trend



Area [186341-1] Machine Id CLARENVILLE Component

Circulating Diesel Engine

CUMMINS CUMMINS BLUE 2000 15W40 (27 LTR)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

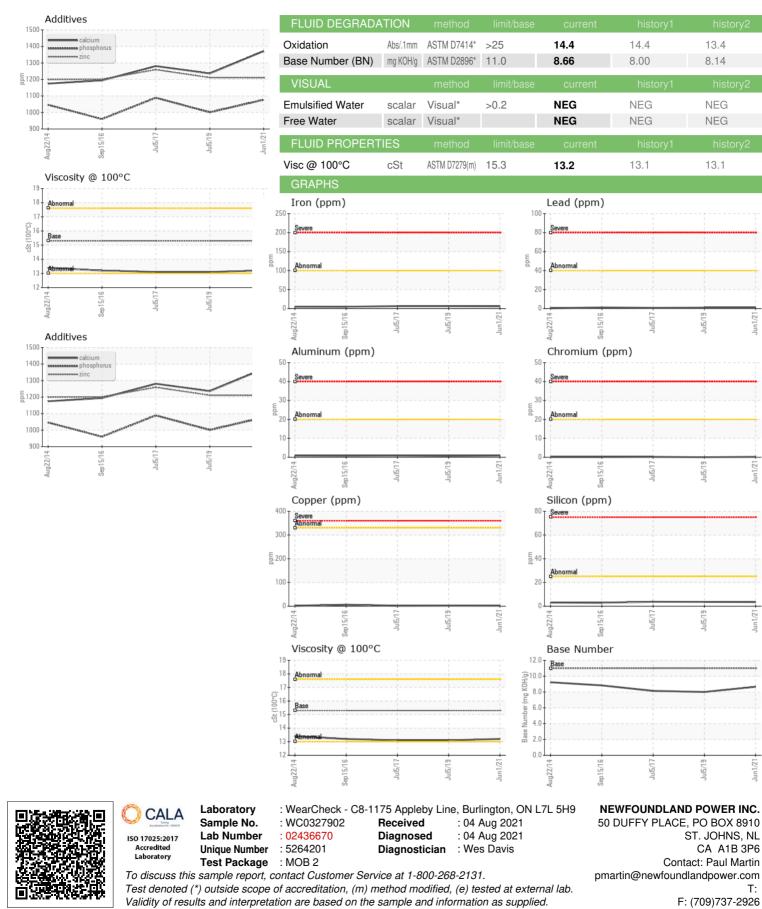
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0327902	WC985110	WC925437
Sample Date		Client Info		01 Jun 2021	05 Jul 2019	05 Jul 2017
Machine Age	hrs	Client Info		311	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	6	6	6
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	1	1	1
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	3	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		<1	0	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1.7	2	1	2
				•		
Barium	ppm	ASTM D5185(m)	0.1	0	0	<1
	ppm ppm	ASTM D5185(m) ASTM D5185(m)	0.1	0 48	0 43	<1 44
Molybdenum Manganese						
Molybdenum Manganese	ppm	ASTM D5185(m)		48	43	44
Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m)	0.0	48 <1	43 <1	44 <1
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0	48 <1 736	43 <1 771	44 <1 865
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0 12 2946	48 <1 736 1371	43 <1 771 1236	44 <1 865 1281
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0 12 2946 1002	48 <1 736 1371 1077	43 <1 771 1236 1001	44 <1 865 1281 1089
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0 12 2946 1002 1288	48 <1 736 1371 1077 1210	43 <1 771 1236 1001 1211	44 <1 865 1281 1089 1259
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0 12 2946 1002 1288	48 <1 736 1371 1077 1210 3051	43 <1 771 1236 1001 1211 3123	44 <1 865 1281 1089 1259 3205
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	0.0 12 2946 1002 1288 5265	48 <1 736 1371 1077 1210 3051 <1 current 4	43 <1 771 1236 1001 1211 3123 0	44 <1 865 1281 1089 1259 3205 <1 history2 4
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0 12 2946 1002 1288 5265 imit/base	48 <1 736 1371 1077 1210 3051 <1 current	43 <1 771 1236 1001 1211 3123 0 history1	44 <1 865 1281 1089 1259 3205 <1 history2 4 4
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	0.0 12 2946 1002 1288 5265 imit/base	48 <1 736 1371 1077 1210 3051 <1 current 4	43 <1 771 1236 1001 1211 3123 0 history1 4	44 <1 865 1281 1089 1259 3205 <1 history2 4
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	0.0 12 2946 1002 1288 5265 imit/base >25	48 <1 736 1371 1077 1210 3051 <1 current 4 3	43 <1 771 1236 1001 1211 3123 0 history1 4 4	44 <1 865 1281 1089 1259 3205 <1 history2 4 4
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	0.0 12 2946 1002 1288 5265 limit/base >25 >20	48 <1 736 1371 1077 1210 3051 <1 current 4 3 1	43 <1 771 1236 1001 1211 3123 0 history1 4 4 4 <1	44 <1 865 1281 1089 1259 3205 <1 history2 4 4 4 1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0.0 12 2946 1002 1288 5265 imit/base >25 >20 imit/base	48 <1 736 1371 1077 1210 3051 <1 current 4 3 1 current	43 <1 771 1236 1001 1211 3123 0 history1 4 4 <1 kistory1	44 <1 865 1281 1089 1259 3205 <1 history2 4 4 4 1 history2





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