

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

### G1 - 3315134

### Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (34 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.

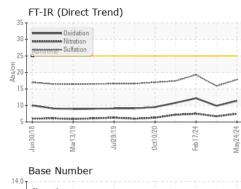
#### Fluid Condition

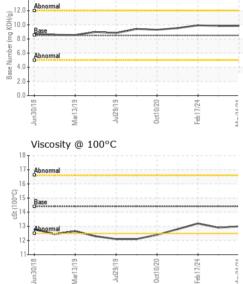
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WCM2279438	WCM2279485	WCM2279369
Sample Date		Client Info		24 May 2024	24 Apr 2024	17 Feb 2024
Machine Age	hrs	Client Info		16523	16088	383
Oil Age	hrs	Client Info		440	300	383
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	5	3	6
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	1
Lead	ppm	ASTM D5185m	>40	_ 10	1	4
Copper	ppm	ASTM D5185m		<1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
O a shasi wa						0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppm	method	limit/base	0 current	0 history1	0 history2
			limit/base 250	-	-	-
ADDITIVES	ppm ppm ppm	method		current	history1	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m	250	current 47	history1 61	history2 216
ADDITIVES Boron	ppm	method ASTM D5185m ASTM D5185m	250 10	current 47 0	history1 61 0	history2 216 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	250 10	current 47 0 37	history1 61 0 37	history2 216 0 41
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100	current 47 0 37 <1	history1 61 0 37 <1	history2 216 0 41 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450	current 47 0 37 <1 42	history1 61 0 37 <1 32	history2 216 0 41 <1 28
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000	current     47     0     37     <1     42     3522	history1 61 0 37 <1 32 3337	history2 216 0 41 <1 28 3620
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150	current     47     0     37     <1     42     3522     916	history1 61 0 37 <1 32 3337 839	history2 216 0 41 <1 28 3620 918
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350	current     47     0     37     <1     42     3522     916     1040	history1     61     0     37     <1     32     3337     839     964	history2     216     0     41     <1     28     3620     918     1032
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 <b>limit/base</b> >25	current     47     0     37     <1     42     3522     916     1040     3659	history1     61     0     37     <1     32     3337     839     964     3355     history1     3	history2     216     0     41     <1     28     3620     918     1032     3769     history2     3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250	current     47     0     37     <1     42     3522     916     1040     3659     current	history1     61     0     37     <1     32     3337     839     964     3355     history1	history2     216     0     41     <1     28     3620     918     1032     3769     history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 <b>limit/base</b> >25	current     47     0     37     <1     42     3522     916     1040     3659     current     3	history1     61     0     37     <1     32     3337     839     964     3355     history1     3	history2     216     0     41     <1     28     3620     918     1032     3769     history2     3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method     ASTM D5185m	250 10 100 450 3000 1150 1350 4250 <b>Imit/base</b> >25 >158 >20 <b>Imit/base</b>	current   47   0   37   <1   42   3522   916   1040   3659   current   3   <1   0   current   0   current	history1   61   0   37   <1   32   3337   839   964   3355   history1   3   0   0   0   0   history1	history2   216   0   41   <1   28   3620   918   1032   3769   history2   3   2   0   history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	method     ASTM D5185m	250 10 100 450 3000 1150 1350 4250 <b>Iimit/base</b> >25 >158 >20 <b>Iimit/base</b> >6	current     47     0     37     <1     42     3522     916     1040     3659     current     3     <1     0     current     0     current     0.1	history1     61     0     37     <1     32     3337     839     964     3355     history1     3     0     0     0     0     0.1	history2   216   0   41   <1   28   3620   918   1032   3769   history2   3   2   0   history2   0   history2   0.1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method     ASTM D5185m	250 10 100 450 3000 1150 1350 4250 <b>Iimit/base</b> >25 >158 >20 <b>Iimit/base</b> >6	current     47     0     37     <1     42     3522     916     1040     3659     current     3     <1     0     current     0     current     0.1     7.5	history1     61     0     37     <1     32     3337     839     964     3355     history1     3     0     0	history2   216   0   41   <1   28   3620   918   1032   3769   history2   3   2   0   history2   3   2   0   history2   0.1   7.5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	method     ASTM D5185m	250 10 100 450 3000 1150 1350 4250 <b>Iimit/base</b> >25 >158 >20 <b>Iimit/base</b> >6	current     47     0     37     <1     42     3522     916     1040     3659     current     3     <1     0     current     0     current     0.1	history1     61     0     37     <1     32     3337     839     964     3355     history1     3     0     0     0     0     0.1	history2   216   0   41   <1   28   3620   918   1032   3769   history2   3   2   0   history2   0   history2   0.1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method     ASTM D5185m	250 10 100 450 3000 1150 1350 4250 <b>i</b> mit/base >25 >158 >20 <b>i</b> mit/base >6 >20	current     47     0     37     <1     42     3522     916     1040     3659     current     3     <1     0     current     0     current     0.1     7.5	history1     61     0     37     <1     32     3337     839     964     3355     history1     3     0     0	history2   216   0   41   <1   28   3620   918   1032   3769   history2   3   2   0   history2   3   2   0   history2   0.1   7.5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method     ASTM D5185m     ASTM D5185m	250 10 100 450 3000 1150 1350 4250 <b>Imit/base</b> >25 >158 >20 <b>Imit/base</b> >6 >20	current   47   0   37   <1   42   3522   916   1040   3659   current   3   <1   0   current   0   current   0.1   7.5   17.8	history1   61   0   37   <1   32   3337   839   964   3355   history1   3   0   0   0   0.1   6.7   15.9	history2   216   0   41   <1   28   3620   918   1032   3769   history2   3   2   0   history2   0   history2   0.1   7.5   19.3



# **OIL ANALYSIS REPORT**





	VISUAL		method					histo	
	White Metal	scalar	*Visual	NONE	NONE	NON	E	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NON		NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NON		NONE	
	Silt	scalar	*Visual	NONE	NONE	NON		NONE	
	Debris	scalar	*Visual	NONE	NONE	NON	E	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NON	E	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NOR		NORM	
	Odor	scalar	*Visual	NORML	NORML	NOR	ML	NORM	1L
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG		NEG	
	Free Water	scalar	*Visual		NEG	NEG		NEG	
	FLUID PROPER	TIES	method	limit/base	current	hist	ory1	histo	ryź
	Visc @ 100°C	cSt	ASTM D445	14.4	13.0	12.9		13.2	
	GRAPHS								
	Iron (ppm)				Lead (ppm)				
	250 Severe			100	Severe				
	200 - Severe			80		I I			
	150-			udd	Abnormal				
	100 Abnormal			21		1			
				_					-
	Jun30/18 Mar13/19	Jui23/13 0ct10/20	Feb17/24	May24/24	Jun30/18 Mar13/19	Jul29/19	0ct10/20	Feb17/24	
		n 00	Feb	May			00	Feb	
	Aluminum (ppm)			51	Chromium (p	pm)			
	40 - Severe			4(	Severe				
				21					
	a 20 Abnormal			ud 21	Abnormal				_
	10-			10	)-				
			4			6		4	_
	Jun30/18 Mar13/19	Joct10/20	Feb17/24	May24/24	Jun30/18 Mar13/19	Jul29/19	0ct10/20	Feb17/24	
	, _	r o	Fel	Ma	-	ſ	õ	B	
	Copper (ppm)			80	Silicon (ppm)				
	300 - Severe			60			1		
	특 200 -			톱 41					
					Abnormal	1			
	100-			21	J				
ە ل_		20	24	24		61	20 +	24	-
	Jun 30/18 Mar1 3/19	Jui23/13 Oct10/20	Feb17/24	May24/24	Jun30/18 Mar13/19	Jul29/19	0ct10/20	Feb17/24 -	
	J Scosity @ 100°		LL.	2	-⇒ ≥ Base Number	,	0	LL.	
18 16	18 <sub>T</sub>				) T				
				KOH/	Abnormal	1			
	Base 14 Abnormal				Base				
				1.01 Base Number (mg KOH(g)	Abnormal				
	12			as Ba					
			Feb17/24 -	May24/24	Jun30/18 +	- + 01/29/19	0ct10/20 +	Feb17/24 -	_
	Jun 30/18	Jui29/19 0ct10/20	12						

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)

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Certificate L2367

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