

OIL ANALYSIS REPORT



Machine Id 9481

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

A Recommendation

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

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2							
Sample Number		Client Info		WC0853439									
Sample Date		Client Info		30 Oct 2023									
Machine Age	kms	Client Info		516326									
Oil Age	kms	Client Info		0									
Oil Changed		Client Info		Not Changd									
Sample Status				ABNORMAL									
CONTAMINATIO	N	method	limit/base	current	history1	history2							
Water		WC Method	>0.2	NEG									
WEAR METALS		method	limit/base	current	history1	history2							
Iron	ppm	ASTM D5185(m)	>100	16									
Chromium	ppm	ASTM D5185(m)	>20	<1									
Nickel	ppm	ASTM D5185(m)	>4	<1									
Titanium	ppm	ASTM D5185(m)		0									
Silver	ppm	ASTM D5185(m)	>3	0									
Aluminum	ppm	ASTM D5185(m)		3									
Lead	ppm	ASTM D5185(m)	>40	2									
Copper	ppm	ASTM D5185(m)	>330	2									
Tin		ASTM D5185(m)	>15	2 <1									
	ppm	ASTM D5185(m)	>10										
Antimony Vanadium	ppm	()		0									
	ppm	ASTM D5185(m)		0									
Beryllium	ppm	ASTM D5185(m)		0									
Cadmium													
	ppm	ASTM D5185(m)		0									
ADDITIVES	ppm	method	limit/base	current	history1	history2							
	ppm	. ,	limit/base 250	-									
ADDITIVES		method		current		history2							
ADDITIVES Boron	ppm	method ASTM D5185(m)	250	current 45	history1	history2							
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185(m) ASTM D5185(m)	250 10	current 45 0	history1 	history2 							
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10	current 45 0 <1	history1 	history2 							
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100	current 45 0 <1	history1	history2 							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450	current 45 0 <1 0 690	history1 	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000	current 45 0 <1	history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150	current 45 0 <1	history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350	current 45 0 <1 0 690 1270 670 733	history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350	current 45 0 <1	history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250	current 45 0 <1	history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 imit/base >25	current 45 0 <1	history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 imit/base >25 >158	current 45 0 <1	history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 iimit/base >25 >158 >20	current 45 0 <1	history1 history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 iimit/base >25 >158 >20	current 45 0 <1	history1 history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 iimit/base >25 >158 >20	current 45 0 <1	history1	history2 history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5182(m) ASTM D5182(m) ASTM D5182(m) ASTM D5182(m)	250 10 100 450 3000 1150 1350 4250 iiiii/base >25 >158 >20 >5	current 45 0 <1	history1 history1 <td>history2 history2 -</td>	history2 history2 -							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D7593* ASTM D7922* method ASTM D7844*	250 10 100 450 3000 1150 1350 4250 imit/base >25 >158 >20 >5 5	current 45 0 <1	history1 <tr td="" tt<=""><td>history2 history2 history2 </td></tr> <tr><td>ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED</td><td>ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm</td><td>method ASTM D5185(m) ASTM D5182(m) ASTM D5182(m)</td><td>250 10 100 450 3000 1150 1350 4250 iiiii/base >25 >158 >20 >5</td><td>current 45 0 <1</td> 0 690 1270 670 733 2519 <1</tr>	history2 history2 history2	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5182(m) ASTM D5182(m)	250 10 100 450 3000 1150 1350 4250 iiiii/base >25 >158 >20 >5	current 45 0 <1	history1 <td>history2 </td>	history2
history2 history2 history2													
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5182(m) ASTM D5182(m)	250 10 100 450 3000 1150 1350 4250 iiiii/base >25 >158 >20 >5	current 45 0 <1									



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