

OIL ANALYSIS REPORT







13059 Diesel Engine {not provided} (--- GAL)

Machine Id

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

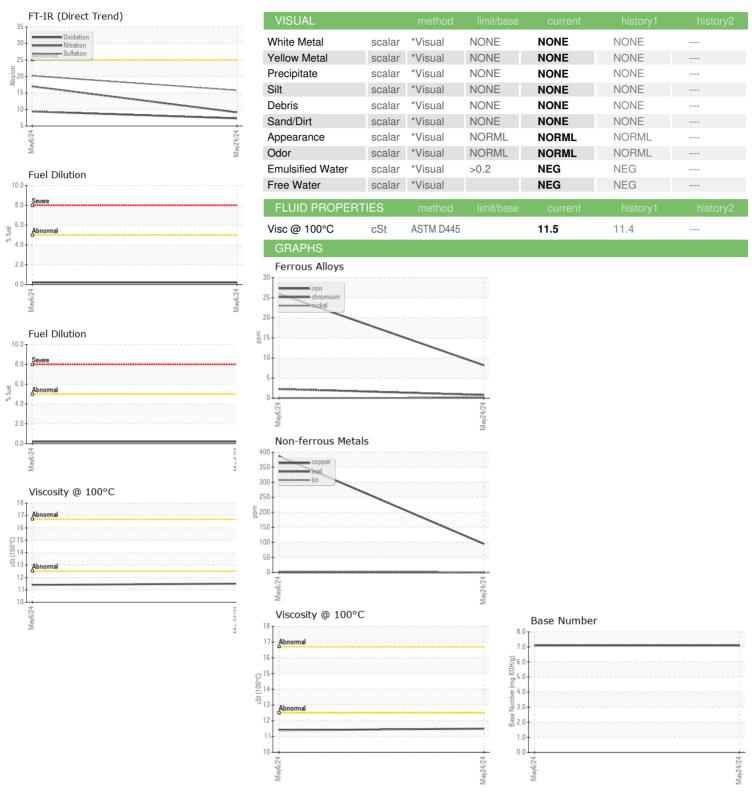
Fluid Condition

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

			May2024	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0896238	WC0896146	
Sample Date		Client Info		24 May 2024	06 May 2024	
Machine Age	mls	Client Info		38288	32382	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	26	
Chromium	ppm	ASTM D5185m	>20	<1	2	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	3	9	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	95	▲ 387	
Tin	ppm	ASTM D5185m	>15	1	3	
Vanadium	ppm	ASTM D5185m		0	0	
O - dood one						
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	ppm	ASTM D5185m method	limit/base	current	0 history1	history2
	ppm		limit/base			history2
ADDITIVES		method	limit/base	current	history1	•
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 87	history1	
ADDITIVES Boron Barium	ppm	method ASTM D5185m ASTM D5185m	limit/base	current 87	history1 50 0	
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 87 0 2	history1 50 0 9	
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 87 0 2 <1	history1 50 0 9 2	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 87 0 2 <1 726	history1 50 0 9 2 739	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 87 0 2 <1 726 1312	history1 50 0 9 2 739 1418	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 87 0 2 <1 726 1312 689	history1 50 0 9 2 739 1418 718	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 87 0 2 <1 726 1312 689 781	history1 50 0 9 2 739 1418 718 802	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m		current 87 0 2 <1 726 1312 689 781 3180	history1 50 0 9 2 739 1418 718 802 2563	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 87 0 2 <1 726 1312 689 781 3180 current	history1 50 0 9 2 739 1418 718 802 2563 history1	 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 87 0 2 <1 726 1312 689 781 3180 current 4	history1 50 0 9 2 739 1418 718 802 2563 history1 5	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 87 0 2 <1 726 1312 689 781 3180 current 4	history1 50 0 9 2 739 1418 718 802 2563 history1 5 4	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20	current 87 0 2 <1 726 1312 689 781 3180 current 4 2 10	history1 50 0 9 2 739 1418 718 802 2563 history1 5 4 29	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20 >5	current 87 0 2 <1 726 1312 689 781 3180 current 4 2 10 <1.0	history1 50 0 9 2 739 1418 718 802 2563 history1 5 4 29 0.2	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20 >5 limit/base	current 87 0 2 <1 726 1312 689 781 3180 current 4 2 10 <1.0 current	history1 50 0 9 2 739 1418 718 802 2563 history1 5 4 29 0.2 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D7844	limit/base >25 >20 >5 limit/base >3	current 87 0 2 <1 726 1312 689 781 3180 current 4 2 10 <1.0 current 0.5	history1 50 0 9 2 739 1418 718 802 2563 history1 5 4 29 0.2 history1 0.4	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7844 *ASTM D7844	limit/base >25 >20 >5 limit/base >3 >20	current 87 0 2 <1 726 1312 689 781 3180 current 4 2 10 <1.0 current 0.5 7.3	history1 50 0 9 2 739 1418 718 802 2563 history1 5 4 29 0.2 history1 0.4 9.4	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	limit/base >25 >20 >5 limit/base >3 >20 >30	current 87 0 2 <1 726 1312 689 781 3180 current 4 2 10 <1.0 current 0.5 7.3 15.8	history1 50 0 9 2 739 1418 718 802 2563 history1 5 4 29 0.2 history1 0.4 9.4 20.2	history2 history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0896238 Lab Number : 06198584

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested** : 04 Jun 2024 : 05 Jun 2024 - Don Baldridge

Unique Number : 11060707 Diagnosed Test Package : FLEET (Additional Tests: FuelDilution) 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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