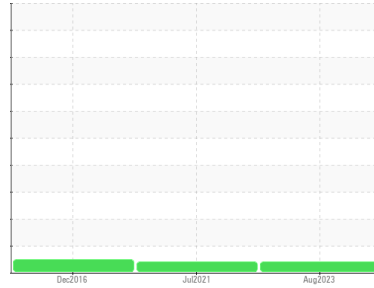




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
4471037 - WILLIAM KOHLER 150 4471037
 Component
Front Diesel Engine
 Fluid
SAE 5W30 (2 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0834355	WC0539607	WCM1370479
Sample Date	Client Info	20 Aug 2023	29 Jul 2021	02 Dec 2016
Machine Age	hrs	Client Info	0	274
Oil Age	hrs	Client Info	0	162
Oil Changed	Client Info	N/A	Changed	Changed
Sample Status		ATTENTION	ATTENTION	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >100	4	5	10
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	<1	1	0
Titanium	ppm	ASTM D5185m >2	0	<1	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	2	2
Lead	ppm	ASTM D5185m >40	<1	1	<1
Copper	ppm	ASTM D5185m >330	3	3	4
Tin	ppm	ASTM D5185m >15	<1	0	11
Antimony	ppm	ASTM D5185m	---	1	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	<1	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	171	25	4
Barium	ppm	ASTM D5185m	21	0	0
Molybdenum	ppm	ASTM D5185m	66	53	37
Manganese	ppm	ASTM D5185m	1	<1	<1
Magnesium	ppm	ASTM D5185m	463	798	726
Calcium	ppm	ASTM D5185m	1029	1263	1502
Phosphorus	ppm	ASTM D5185m	606	990	955
Zinc	ppm	ASTM D5185m	754	996	1186
Sulfur	ppm	ASTM D5185m	2904	2846	3450

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	10	8	7
Sodium	ppm	ASTM D5185m	17	16	8
Potassium	ppm	ASTM D5185m >20	3	6	3
Fuel	%	ASTM D3524 >5	1.7	0.4	<1.0

INFRA-RED

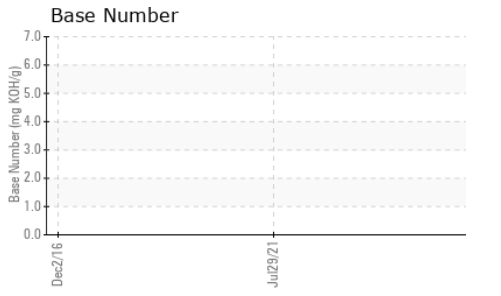
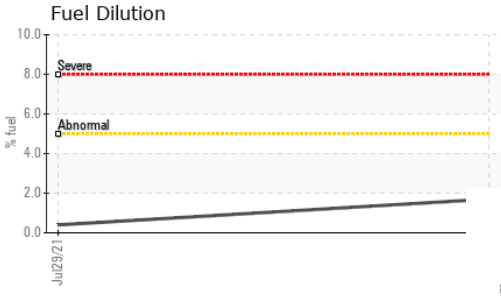
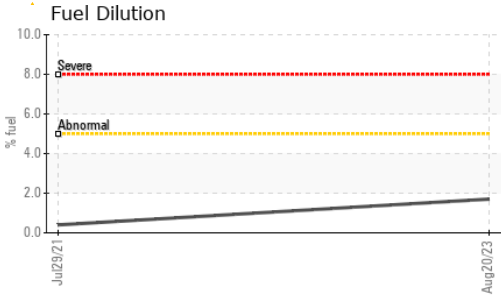
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	0	0	0
Nitration	Abs/cm	*ASTM D7624 >20	4.2	6.3	6.
Sulfation	Abs/.1mm	*ASTM D7415 >30	14.7	19	16.

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	8.7	13.5	11.
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	---	---



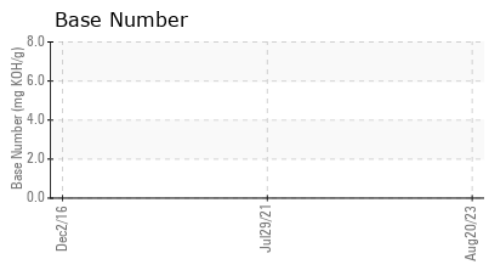
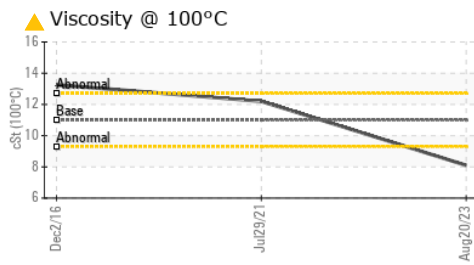
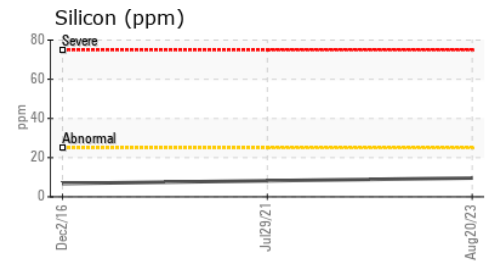
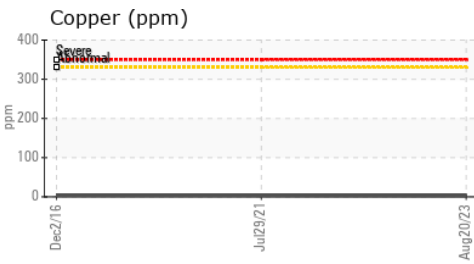
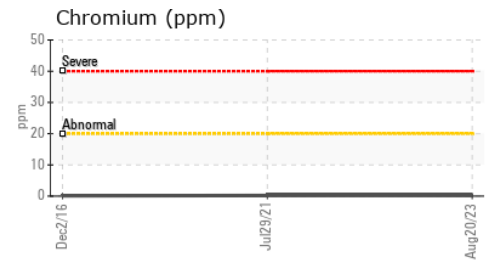
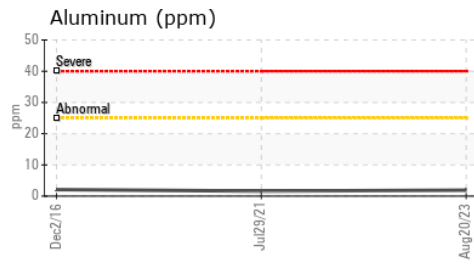
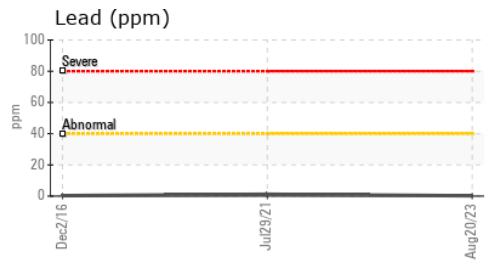
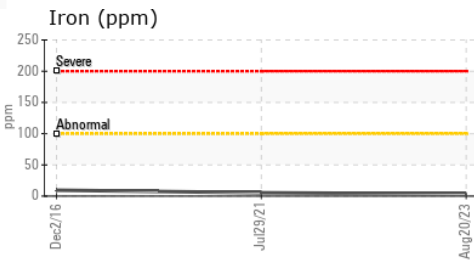
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.0 ▲ 8.1	▲ 12.2	13.26

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0834355 **Received** : 21 Aug 2023
Lab Number : 05929338 **Diagnosed** : 23 Aug 2023
Unique Number : 10609285 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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 NEW WINDSOR, NY
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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)