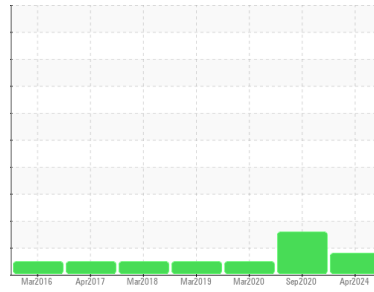




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id  
**KOHLER 5GM3233VR**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON 15W40 (--- QTS)**

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0597261</b>	WC0501584	WC0452532
Sample Date	Client Info			<b>21 Apr 2024</b>	22 Sep 2020	31 Mar 2020
Machine Age	hrs	Client Info		<b>0</b>	0	402
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Changed</b>	Changed	N/A
Sample Status				<b>MARGINAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>8</b>	3	9
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	3	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Lead	ppm	ASTM D5185m	>40	<b>4</b>	0	7
Copper	ppm	ASTM D5185m	>330	<b>19</b>	<1	24
Tin	ppm	ASTM D5185m	>15	<b>3</b>	<1	0
Antimony	ppm	ASTM D5185m		<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>104</b>	425	341
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>74</b>	88	114
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>778</b>	316	553
Calcium	ppm	ASTM D5185m		<b>1113</b>	1338	1498
Phosphorus	ppm	ASTM D5185m		<b>920</b>	908	730
Zinc	ppm	ASTM D5185m		<b>1143</b>	978	827
Sulfur	ppm	ASTM D5185m		<b>3058</b>	2670	2152

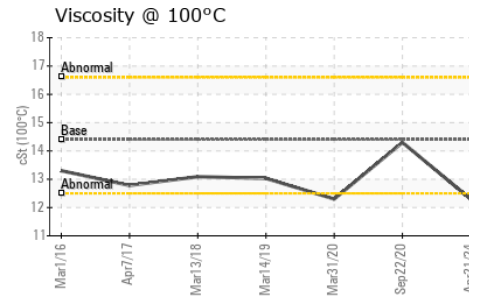
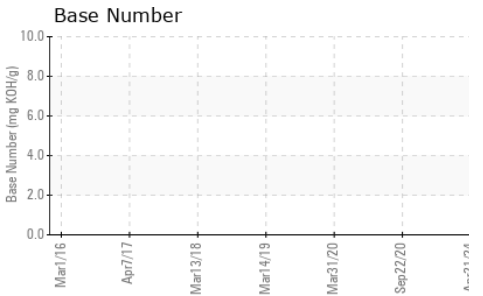
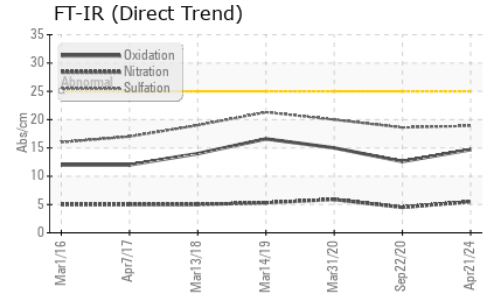
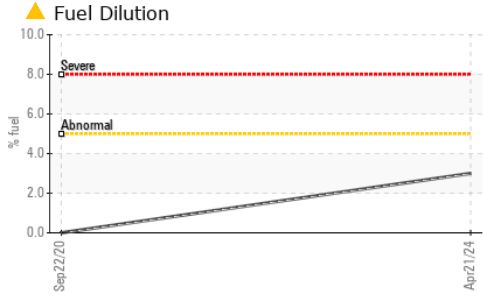
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>7</b>	10	8
Sodium	ppm	ASTM D5185m	>50	<b>3</b>	2	3
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	9
Fuel	%	ASTM D3524	>5	<b>▲ 3.0</b>	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.5</b>	4.5	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.9</b>	18.6	20

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.7</b>	12.6	15
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.2</b>	---	---



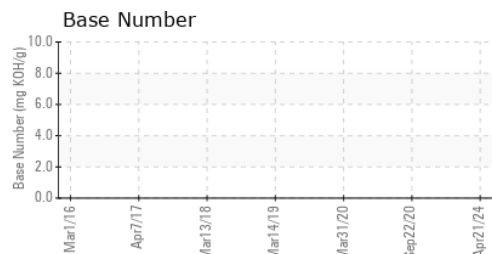
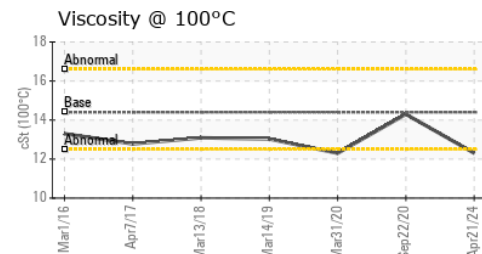
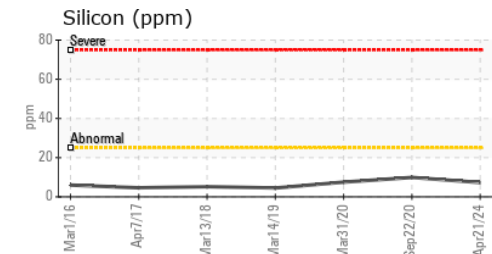
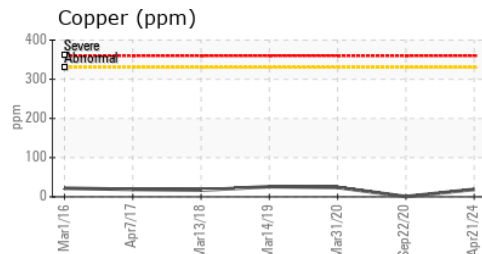
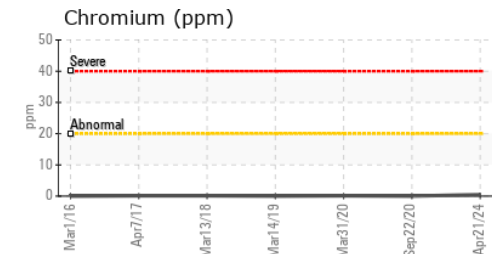
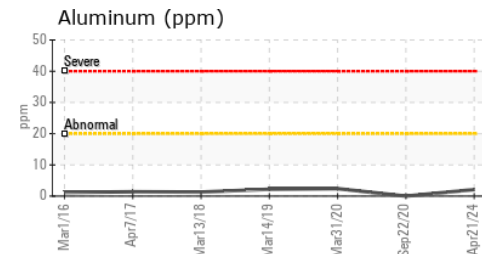
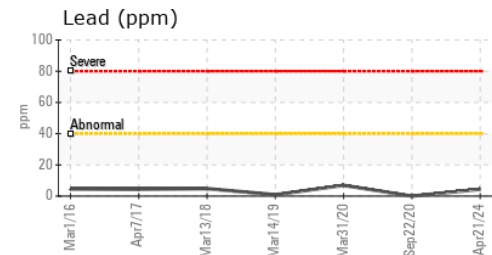
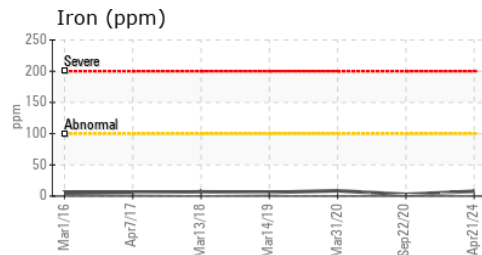
# OIL ANALYSIS REPORT



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	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.3	14.3

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0597261      **Received** : 22 Apr 2024  
**Lab Number** : 06156625      **Tested** : 25 Apr 2024  
**Unique Number** : 10992048      **Diagnosed** : 25 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

**CHRIST HOME**  
 1 SHEPERDS WAY  
 WARMINSTER, PA  
 US 18974  
 Contact: DAN FLANAGAN

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)

T: (215)956-2270  
F: