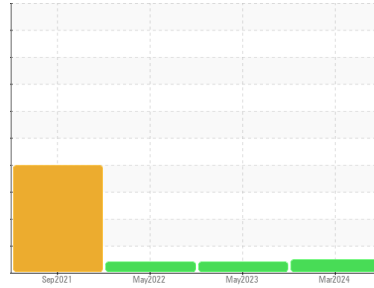




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**Westchester des 10 doosan lightowers 495827uiadg79**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### 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

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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0878260</b>	WC0799901	WC0651443
Sample Date	Client Info	<b>21 Mar 2024</b>	02 May 2023	27 May 2022
Machine Age	hrs	<b>4330</b>	432	432
Oil Age	hrs	<b>0</b>	5	0
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	ATTENTION	ATTENTION

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<b>&lt;1.0</b>	<1.0	<1.0
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>&lt;1</b>	2	15
Chromium	ppm ASTM D5185m >20	<b>0</b>	<1	<1
Nickel	ppm ASTM D5185m >4	<b>0</b>	<1	0
Titanium	ppm ASTM D5185m	<b>0</b>	<1	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>&lt;1</b>	1	4
Lead	ppm ASTM D5185m >40	<b>0</b>	<1	<1
Copper	ppm ASTM D5185m >330	<b>0</b>	<1	5
Tin	ppm ASTM D5185m >15	<b>0</b>	<1	0
Antimony	ppm ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	<b>6</b>	16	10
Barium	ppm ASTM D5185m 10	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 100	<b>64</b>	46	60
Manganese	ppm ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m 450	<b>1027</b>	585	842
Calcium	ppm ASTM D5185m 3000	<b>1230</b>	1463	1121
Phosphorus	ppm ASTM D5185m 1150	<b>1076</b>	955	961
Zinc	ppm ASTM D5185m 1350	<b>1290</b>	1181	1191
Sulfur	ppm ASTM D5185m 4250	<b>4263</b>	3622	2902

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>5</b>	6	11
Sodium	ppm ASTM D5185m >158	<b>0</b>	1	1
Potassium	ppm ASTM D5185m >20	<b>2</b>	6	<1

## INFRA-RED

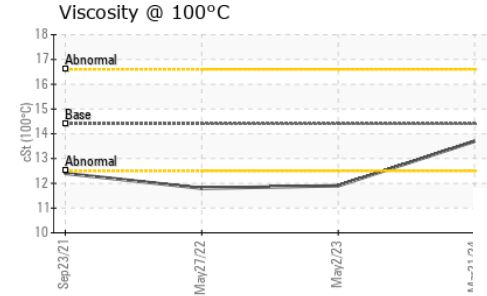
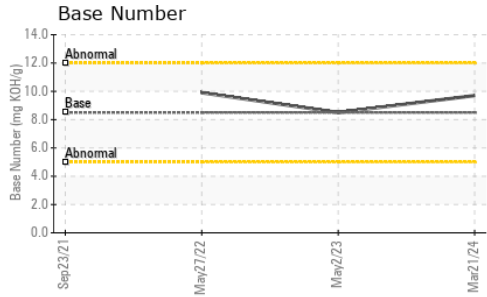
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0</b>	0	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>4.5</b>	4.5	8.0
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>16.9</b>	15.6	18.8

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>12.9</b>	10.8	15.8
Base Number (BN)	mg KOH/g ASTM D2896 8.5	<b>9.7</b>	8.5	9.9



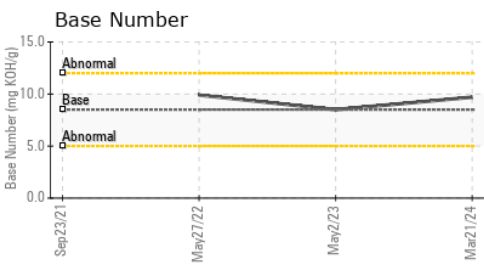
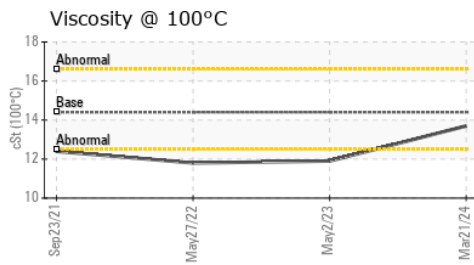
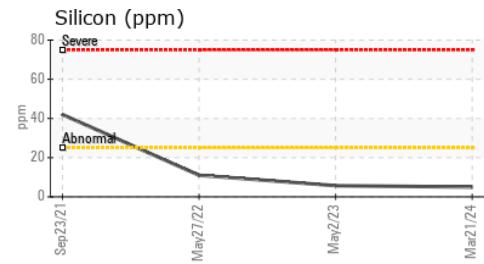
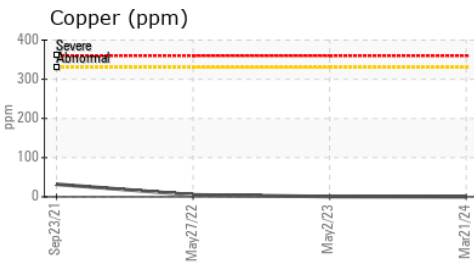
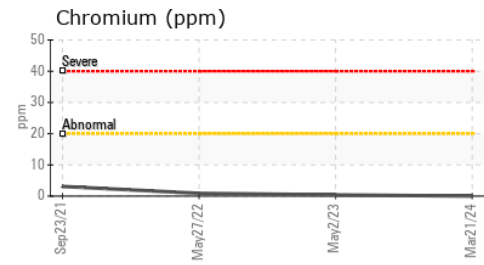
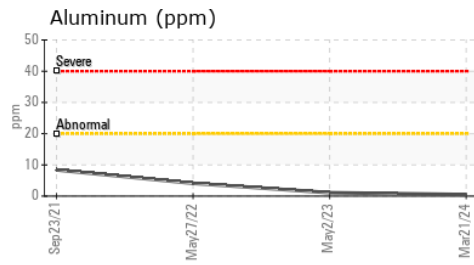
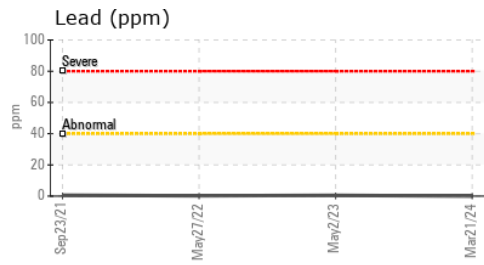
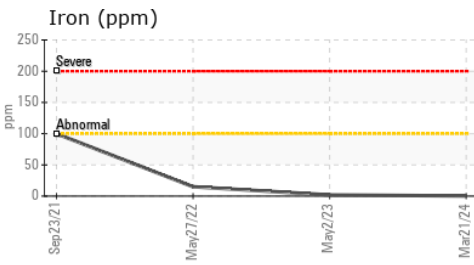
# OIL ANALYSIS REPORT



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	14.4	13.7	11.9	11.8

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0878260      **Received** : 01 Apr 2024  
**Lab Number** : 06134621      **Tested** : 02 Apr 2024  
**Unique Number** : 10954086      **Diagnosed** : 02 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**GEN TECH LTD**  
 3017 RT 9W  
 NEW WINDSOR, NY  
 US 12553  
 Contact: JOE SAYEGH  
 joe@gentechltd.com  
 T: (845)568-0500  
 F: (845)568-3073

Certificate L2367  
 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)