



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**[PMOAS2771878]**  
 Machine Id  
**SD500 3004006682**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0023228</b>	DC0023243	DC0017047
Sample Date		Client Info		<b>24 Apr 2024</b>	03 Apr 2023	10 Feb 2022
Machine Age	hrs	Client Info		<b>164</b>	143	101
Oil Age	hrs	Client Info		<b>22</b>	27	18
Filter Age	hrs	Client Info		<b>22</b>	27	18
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>&lt;1</b>	5	6
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	5	7
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>0</b>	2	3
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

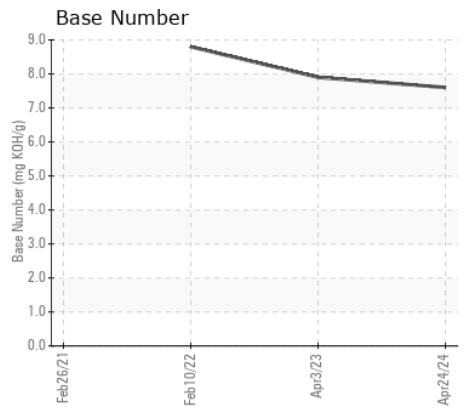
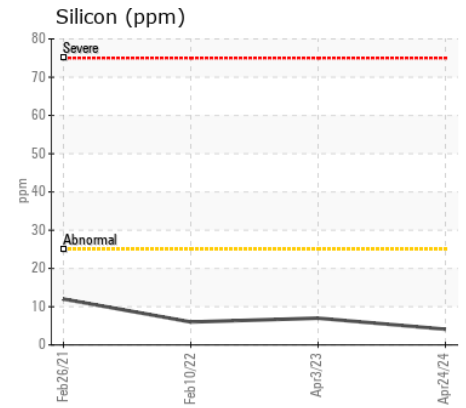
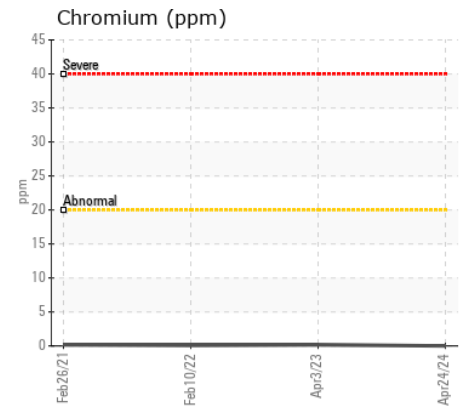
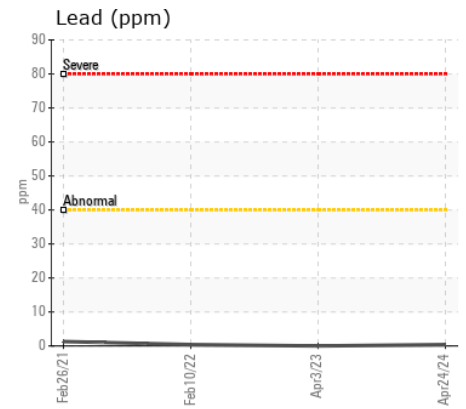
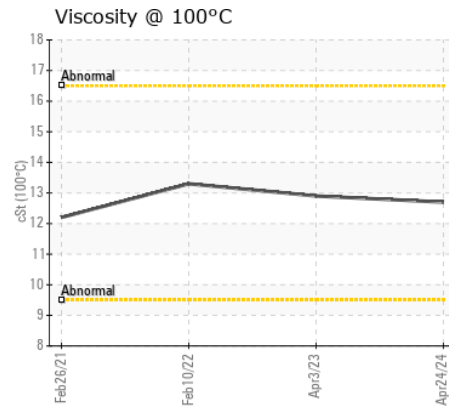
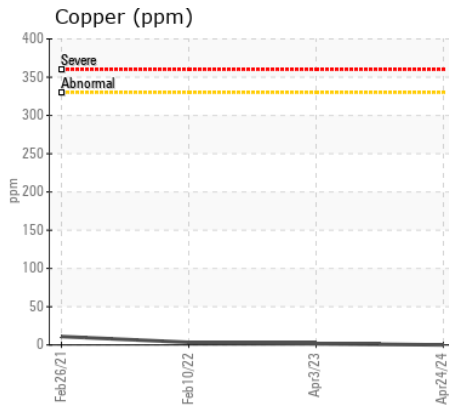
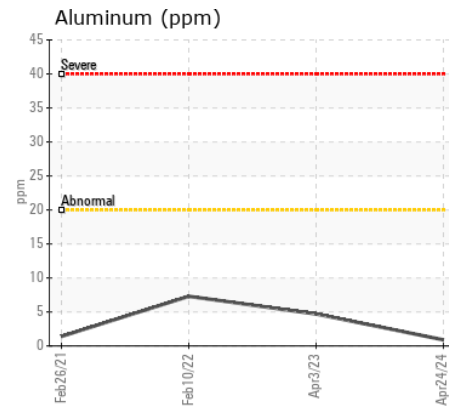
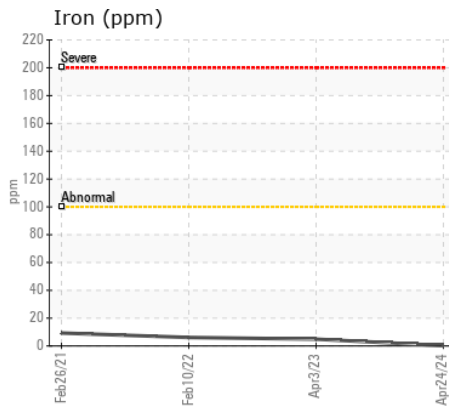
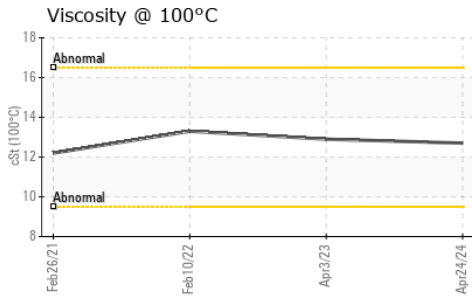
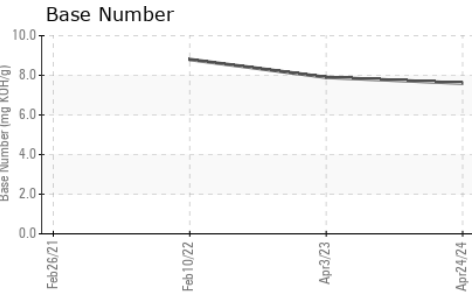
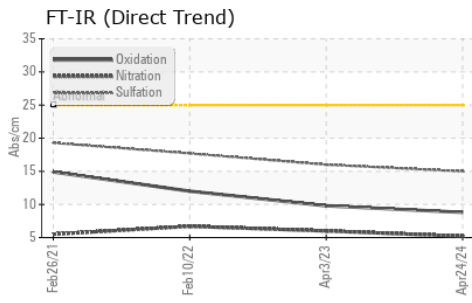
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	20	17
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
Soot %	%	*ASTM D7844	>3	<b>0</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.2</b>	6.0	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.0</b>	16.0	17.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185m	>75	<b>&lt;1</b>	2	3
Boron	ppm	ASTM D5185m		<b>4</b>	22	34
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>4</b>	23	41
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>19</b>	46	64
Calcium	ppm	ASTM D5185m		<b>2303</b>	2061	2248
Phosphorus	ppm	ASTM D5185m		<b>901</b>	855	998
Zinc	ppm	ASTM D5185m		<b>1013</b>	979	1098
Sulfur	ppm	ASTM D5185m		<b>4062</b>	3347	3233
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.8</b>	9.8	12.0
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.6</b>	7.9	8.8
Visc @ 100°C	cSt	ASTM D445		<b>12.7</b>	12.9	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0023228 **Received** : 10 May 2024  
**Lab Number** : 06175170 **Tested** : 11 May 2024  
**Unique Number** : 11021223 **Diagnosed** : 13 May 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**KELLY GENERATOR & EQUIPMENT INC**  
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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)