



# OIL ANALYSIS REPORT

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

Area  
**[PMIAS3286933]**  
 Machine Id  
**KATOLIGHT SED125FRJ4 108329-0405**  
 Component  
**Diesel Engine**  
 Fluid  
**UNITED OIL DURALENE (4 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0035007</b>	DC0025245	DC0017147
Sample Date		Client Info		<b>26 Feb 2024</b>	14 Mar 2023	10 Jan 2022
Machine Age	hrs	Client Info		<b>310</b>	305	298
Oil Age	hrs	Client Info		<b>1</b>	0	0
Filter Age	hrs	Client Info		<b>1</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	<b>2</b>	3	2
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>2</b>	2	1
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

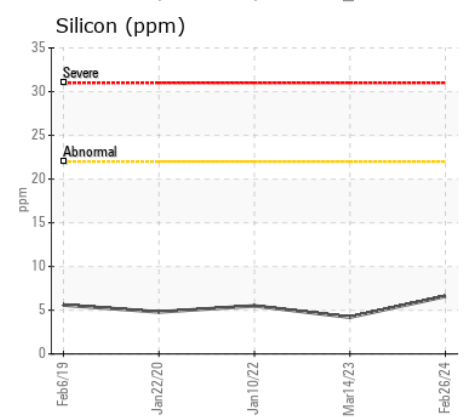
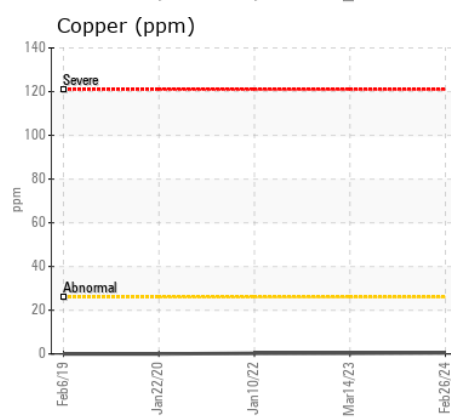
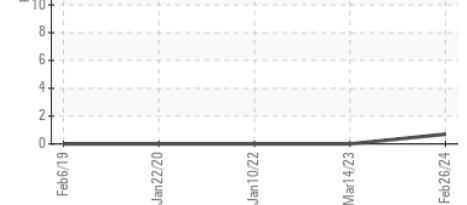
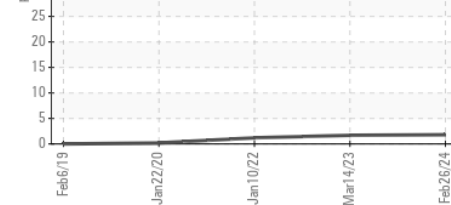
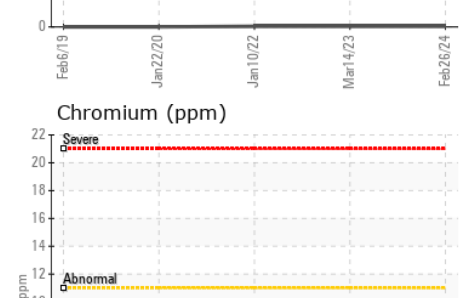
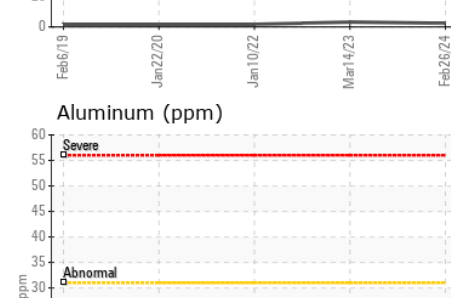
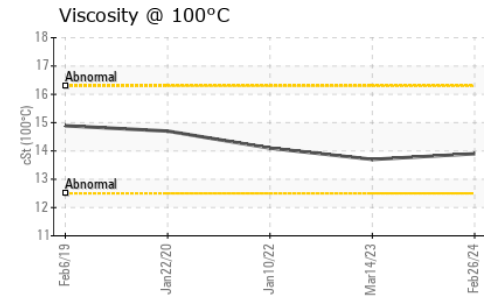
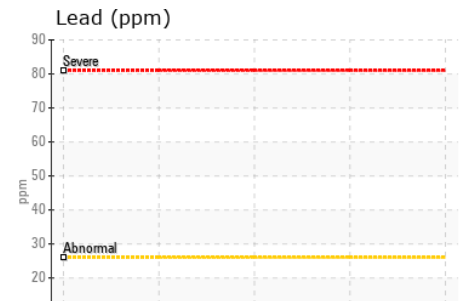
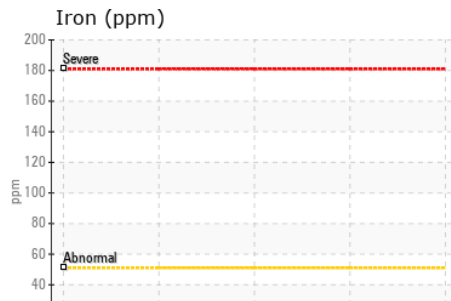
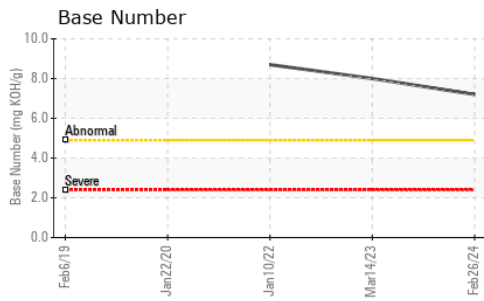
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>7</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.7</b>	5.3	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.4</b>	15.4	16.5
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	>0.21	<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	>31	<b>1</b>	0	2
Boron	ppm	ASTM D5185m		<b>11</b>	<1	6
Barium	ppm	ASTM D5185m		<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>4</b>	1	3
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>52</b>	18	44
Calcium	ppm	ASTM D5185m		<b>2049</b>	2273	2235
Phosphorus	ppm	ASTM D5185m		<b>754</b>	839	893
Zinc	ppm	ASTM D5185m		<b>966</b>	1023	1006
Sulfur	ppm	ASTM D5185m		<b>3706</b>	3442	3393
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.0</b>	8.5	9.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.2</b>	8.0	8.7
Visc @ 100°C	cSt	ASTM D445		<b>13.9</b>	13.7	14.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0035007  
**Lab Number** : 06102756  
**Unique Number** : 10900986  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**KELLY GENERATOR & EQUIPMENT INC**  
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 US 20736  
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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)