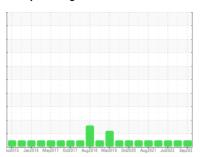


# **OIL ANALYSIS REPORT**

### **Sample Rating Trend**



NORMAL



Machine Id 1373E Component

**Diesel Engine** 

**PURUS SYNTHETIC BLEND 15W40 (--- QTS)** 

### 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**

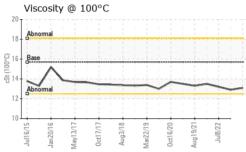
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

*S)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013227	KL0011855	KL0008602
Sample Date		Client Info		06 Sep 2023	03 May 2023	08 Jul 2022
Machine Age	mls	Client Info		148113	142409	132995
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	2	11
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	1
Aluminum	ppm	ASTM D5185m	>20	2	5	2
Lead	ppm	ASTM D5185m	>40	2	0	2
Copper	ppm	ASTM D5185m	>330	4	<1	1
Tin	ppm	ASTM D5185m	>15	1	0	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	12	11
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		79	64	61
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m		1152	1030	873
Calcium	ppm	ASTM D5185m		1281	1163	1133
Phosphorus	ppm	ASTM D5185m		1266	1105	890
Zinc	ppm	ASTM D5185m		1545	1367	1136
Sulfur	ppm	ASTM D5185m		3821	3878	3482
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	2	3
Sodium	ppm	ASTM D5185m		6	<1	2
Potassium	ppm	ASTM D5185m	>20	4	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.8	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	20.2	24.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	16.7	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.6	9.93	6.4
,	. 0					



# **OIL ANALYSIS REPORT**



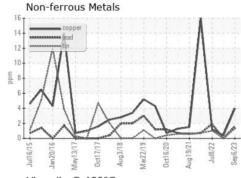


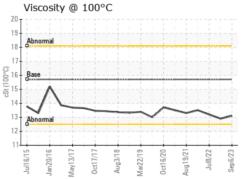
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

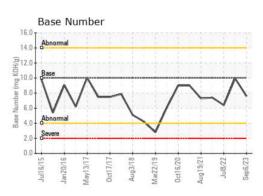
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.7	13.1	12.9	13.2

### **GRAPHS**

# Ferrous Alloys











Certificate L2367

Laboratory Sample No. Lab Number

: KL0013227 : 05966135 Unique Number : 10672686 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Oct 2023 : 03 Oct 2023 Diagnosed Diagnostician : Wes Davis

**VILLAGE OF RUIDOSO** 313 CREE MEADOWS DR RUIDOSO, NM US 88355

Contact: JERRY PARSONS jerryparsons@ruidoso-nm.gov

T: (575)257-1702

\* - 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)

F: x: