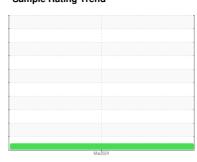


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
L-444
Component

Diesel Engine

PHILLIPS 66 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

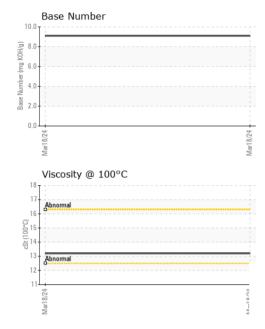
Fluid Condition

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

				Mar2024		
SAMPLE INFORM	ΙΔΤΙΩΝ	method	limit/base	current	history1	history2
	ATION		IIIIIII Dase			
Sample Number		Client Info		WC0878709		
Sample Date		Client Info		18 Mar 2024		
Machine Age	hrs	Client Info		787		
Oil Age	hrs	Client Info		287		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	37		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		242		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		248		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		834		
Calcium	ppm	ASTM D5185m		1479		
Phosphorus	ppm	ASTM D5185m		947		
Zinc	ppm	ASTM D5185m		1105		
Sulfur	ppm	ASTM D5185m		3626		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	7.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2		
Base Number (BN)	mg KOH/g	ASTM D2896		9.1		
, ,						



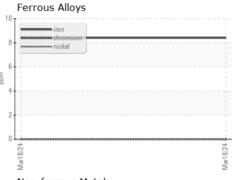
OIL ANALYSIS REPORT



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

13.2

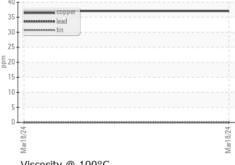
Visc @ 100°C
CBABHS

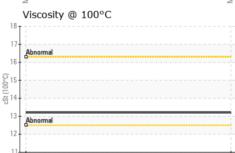


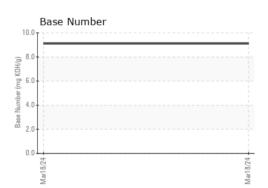
cSt

ASTM D445













Laboratory Sample No.

Lab Number : 06122008

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0878709

Received **Tested** Unique Number : 10936159 Test Package : CONST (Additional Tests: TBN)

Diagnosed

: 19 Mar 2024 : 19 Mar 2024

: 21 Mar 2024 - Don Baldridge

DUKE LAZZARA 4201 FAYETTEVILLE RD RALEIGH, NC

US 27603 Contact: NICK DIXON

NICK.DIXON@DUKELAZZAM.COM T: (919)760-7797

Contact/Location: NICK DIXON - DUKRAL

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: