

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL NORMAL

Machine Id

KENWORTH T880 T-889 (S/N 1XKZD40X7PJ225508)

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

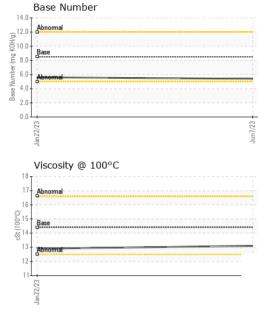
Fluid Condition

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

		ı.	Jan2023	Jun 2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0804123	WC0693431	
Sample Date		Client Info		07 Jun 2023	22 Jan 2023	
Machine Age	mls	Client Info		78385	51270	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	30	54	
Chromium	ppm	ASTM D5185m	>20	2	5	
Nickel	ppm	ASTM D5185m	>4	<1	2	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	16	41	
Lead	ppm	ASTM D5185m	>40	2	4	
Copper	ppm	ASTM D5185m	>330	2	5	
Tin	ppm	ASTM D5185m	>15	1	2	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	1	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	4	5	
Manganese	ppm	ASTM D5185m		1	2	
Magnesium	ppm	ASTM D5185m	450	60	97	
Calcium	ppm	ASTM D5185m	3000	2490	2291	
Phosphorus	ppm	ASTM D5185m	1150	936	805	
Zinc	ppm	ASTM D5185m	1350	1110	1052	
Sulfur	ppm	ASTM D5185m	4250	4365	3951	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	17	
Sodium	ppm	ASTM D5185m	>158	5	2	
Potassium	ppm	ASTM D5185m	>20	38	82	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.8	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	13.3	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.4	5.6	



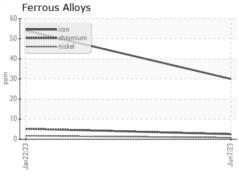
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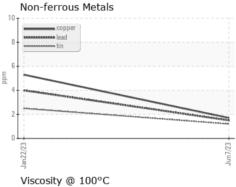


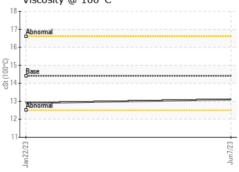
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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 PROPERT	IEO	method	limit/hase	current	history1	history2

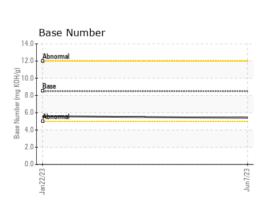
FLUID PROPER	HES	method	limit/base		history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	12.9	

GRAPHS











Laboratory Sample No. Lab Number Unique Number : 10566495

: WC0804123 : 05905139

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 24 Jul 2023 Received

Diagnosed : 24 Jul 2023 Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: TBN)

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.

EAI EQUIPMENT A DIIV OF PLEASANT CONSTRUCTION INC

CLARKSBURG, MD US 20871

Contact: Service Manager

24024 FREDERICK ROAD

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

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