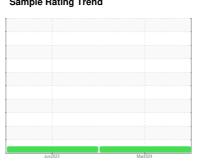


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



KENWORTH 417

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.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

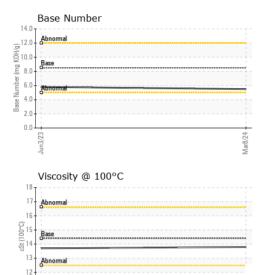
Fluid Condition

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

SAMPLE INFORI	MATION	method	Junž023 limit/base	_{Mæ} ž ₀₂₄ current	history1	history2
	WATION		IIIIIIVDase			HISTOLYZ
Sample Number		Client Info		PCA0115579	PCA0069344	
Sample Date		Client Info		08 Mar 2024	03 Jun 2023	
Machine Age	mls	Client Info		0	442817	
Oil Age	mls	Client Info		0	19531	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	53	21	
Chromium	ppm	ASTM D5185m	>20	1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	2	
Lead	ppm	ASTM D5185m	>40	3	2	
Copper	ppm	ASTM D5185m	>330	1	<1	
Tin	ppm	ASTM D5185m	>15	1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	14	37	
Barium	ppm	ASTM D5185m	10	1	0	
Molybdenum	ppm	ASTM D5185m	100	71	36	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	450	1028	403	
Calcium	ppm	ASTM D5185m	3000	1291	1702	
Phosphorus	ppm	ASTM D5185m	1150	1148	947	
Zinc	ppm	ASTM D5185m	1350	1423	1204	
Sulfur	ppm	ASTM D5185m	4250	3441	3241	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	
Sodium	ppm	ASTM D5185m	>158	0	2	
Potassium	ppm	ASTM D5185m	>20	6	6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	11.8	10.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	26.1	
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	23.0	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.5	5.8	
(214)						



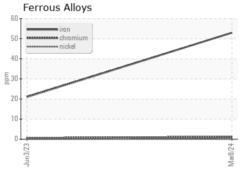
OIL ANALYSIS REPORT

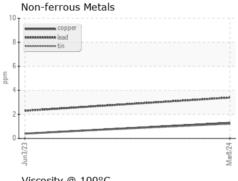


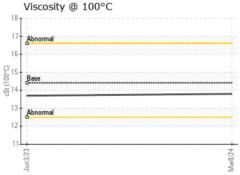
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

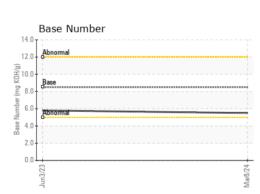
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.7	

GRAPHS













Certificate L2367

Laboratory Sample No.

: PCA0115579 Lab Number : 06128546 Unique Number : 10942697 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 26 Mar 2024 : 26 Mar 2024 - Wes Davis

: 25 Mar 2024

10895 171ST AVE NW ELK RIVER, MN US 55330

Contact: JAY LEFEBVRE jay.lefebvre@leftruck.com

LEFEBVRE AND SONS

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)

T:

F: