

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



KENWORTH T880 T-888 (S/N 1XKZD40X5PJ225507)

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

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.

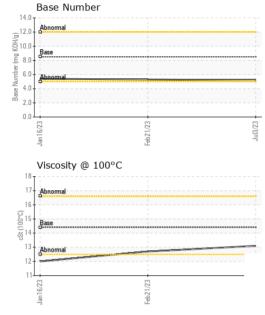
Fluid Condition

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

		Jan	2023	Feb 2023 Jul 20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0804122	WC0693453	WC0693414
Sample Date		Client Info		03 Jul 2023	21 Feb 2023	16 Jan 2023
Machine Age	mls	Client Info		0	46859	41482
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	1.3
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	35	48	81
Chromium	ppm	ASTM D5185m	>20	2	8	4
Nickel	ppm	ASTM D5185m	>4	<1	2	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	11	40	45
Lead	ppm	ASTM D5185m	>40	4	4	7
Copper	ppm	ASTM D5185m	>330	5	8	29
Tin	ppm	ASTM D5185m	>15	2	3	5
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	1	4	14
Barium	ppm	ASTM D5185m	10	0	0	3
Molybdenum	ppm	ASTM D5185m	100	4	6	8
Manganese	ppm	ASTM D5185m		1	3	6
Magnesium	ppm	ASTM D5185m	450	105	110	552
Calcium	ppm	ASTM D5185m	3000	2544	2630	1642
Phosphorus	ppm	ASTM D5185m	1150	973	982	683
7:					002	000
Zinc	ppm	ASTM D5185m	1350	1172	1212	879
Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1350 4250			
-	ppm			1172	1212	879
Sulfur	ppm	ASTM D5185m	4250	1172 4482	1212 4085	879 3106
Sulfur CONTAMINANTS	ppm	ASTM D5185m method	4250 limit/base	1172 4482 current	1212 4085 history1	879 3106 history2
Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m method ASTM D5185m	4250 limit/base >25	1172 4482 current	1212 4085 history1	879 3106 history2
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	4250 limit/base >25 >158	1172 4482 current 13	1212 4085 history1 17	879 3106 history2 37
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	4250 limit/base >25 >158 >20	1172 4482 current 13 3 25	1212 4085 history1 17 4 102	879 3106 history2 37 4 108
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	4250 limit/base >25 >158 >20 limit/base >3	1172 4482 current 13 3 25 current	1212 4085 history1 17 4 102 history1	879 3106 history2 37 4 108 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	4250 limit/base >25 >158 >20 limit/base >3	1172 4482 current 13 3 25 current 0.5	1212 4085 history1 17 4 102 history1 0.5	879 3106 history2 37 4 108 history2 0.6
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm Abs/.tmm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	4250 limit/base >25 >158 >20 limit/base >3 >20	1172 4482 current 13 3 25 current 0.5 9.4	1212 4085 history1 17 4 102 history1 0.5 8.9	879 3106 history2 37 4 108 history2 0.6 11.7
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm Abs/.tmm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	4250 limit/base >25 >158 >20 limit/base >3 >20 >30	1172 4482 current 13 3 25 current 0.5 9.4 23.9	1212 4085 history1 17 4 102 history1 0.5 8.9 24.1	879 3106 history2 37 4 108 history2 0.6 11.7 24.7

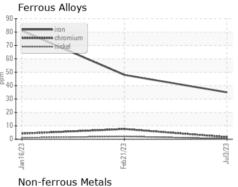


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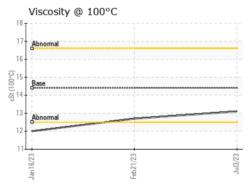


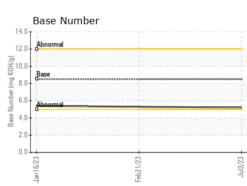
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

0.5 0						
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	12.7	▲ 12.0



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25 - copper		
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20		
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10		
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5		
0		-
16/23	1/23	13/23









Laboratory Sample No. Lab Number Unique Number : 10566499

: WC0804122 : 05905143

: 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.

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

EAI EQUIPMENT A DIIV OF PLEASANT CONSTRUCTION INC

24024 FREDERICK ROAD CLARKSBURG, MD

US 20871

Contact: Service Manager