

OIL ANALYSIS REPORT

Area **2H28** KENWORTH T880 TCK6934 (S/N 1XKZP4TX1PJ260922) Component

Diesel Engine

DIESEL ENGINE OIL SAE 30 (--- QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

Wear

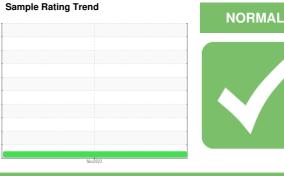
Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. Elevated aluminum (AI) 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.

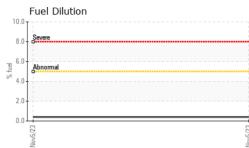


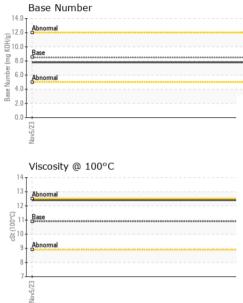


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ARI05998585		
Sample Date		Client Info		05 Nov 2023		
Machine Age	mls	Client Info		22421		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm		>20	11		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm		>330	<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	37		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	38		
Manganese	ppm	ASTM D5185m	450	<1		
Magnesium	ppm	ASTM D5185m	450	126		
Calcium	ppm	ASTM D5185m	3000	2253		
Phosphorus	ppm	ASTM D5185m	1150	952		
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1350 4250	1120 3533		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		7		
Sodium	ppm	ASTM D5185m	>75	0		
Potassium	ppm	ASTM D5185m	>20	23		
Fuel	%	ASTM D3524	>5	0.4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	5.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.1		
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.9		
Base Number (BN)	mg KOH/g		8.5	7.8		
		DECOU	5.0			



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	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		
50		scalar	*Visual	NORML	NORML		
Mo.6.03	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
	Free Water	scalar	*Visual	20.L	NEG		
					NEG		
	FLUID PROPER	ΓIES	method	limit/base	current	history1	history
	Visc @ 100°C	cSt	ASTM D445	10.9	12.4		
	GRAPHS						
	Ferrous Alloys						
	¹⁰ iron						
	8 chromium						
	nickel						
	6- E			-			
	특 문 4						
	2						
annannannannannannanna							
	Nov5/23			Nov5/23 -			
	Nov			Novi			
	Non-ferrous Meta	ls					
	¹⁰ T						
	copper						
	8 - exercise tin						
	6 -						
	ud d						
	4						
	2						
	0						
	0						
	Nov5/23			Nov5/23			
	0			Nov5/23	Base Number		
	Viscosity @ 100°C			52/500N			
	Viscosity @ 100°C			EZ/Show 14.1	Abnormal		
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	Viscosity @ 100°C			EZ/Show 14.1	Abnormal		
	Viscosity @ 100°C			EZ/Show 14.1	Abnormal		
	Viscosity @ 100°C			EZ/Show 14.1	Abnormal		
	Viscosity @ 100°C			52/500N	Abnormal Bass Abnormal Abnormal		
	Viscosity @ 100°C			14.1 (0)H10,1 Bull sequence 8.4 2.1 2.1	Abnormal Base Abnormal Abnormal Abnormal		
	Viscosity @ 100°C			- ссусуюм (0,10,10,1 но мониция но моници но мониция но моници но моници но моници но моници но моници но моници но моници но моници но моници но мони но	Abnormal Base Abnormal Abnormal Abnormal		

VISUAI method limit/base current history1 history2

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

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