

OIL ANALYSIS REPORT

NORMAL

Machine Id

KENWORTH W900 200811

Diesel Engine

Fluid MOBIL DELVAC 1300 SUPER15W40 (12 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.

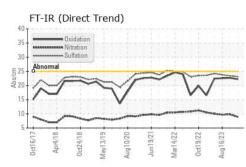
Fluid Condition

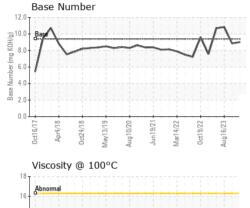
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

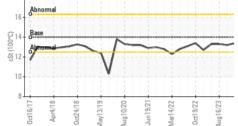
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004899	RW0004905	RW0004373
Sample Date		Client Info		20 Mar 2024	31 Jan 2024	16 Aug 2023
Machine Age	mls	Client Info		333952	323800	303400
Oil Age	mls	Client Info		10058	10000	8700
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	nom	ASTM D5185m	>90	12	16	15
Chromium	ppm ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm		>20	1	2	1
Lead	ppm	ASTM D5185m	>40	، <1	<1	1
Copper	ppm		>330	0	0	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m	210	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	51	43	35
Barium	ppm		0	0	0	4
Molybdenum	ppm	ASTM D5185m	0	43	44	47
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppiii					
	ppm	ASTM D5185m	0	577		
÷	ppm ppm	ASTM D5185m ASTM D5185m	0	577 1968	576	536
Calcium	ppm	ASTM D5185m	0	1968	576 1997	536 1636
÷	ppm ppm	ASTM D5185m ASTM D5185m	0	1968 881	576 1997 884	536
Calcium Phosphorus	ppm	ASTM D5185m	0	1968	576 1997	536 1636 799
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 limit/base	1968 881 1041	576 1997 884 1058	536 1636 799 931
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		1968 881 1041 3263	576 1997 884 1058 3292	536 1636 799 931 2616
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	1968 881 1041 3263 current	576 1997 884 1058 3292 history1	536 1636 799 931 2616 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >25	1968 881 1041 3263 current 6	576 1997 884 1058 3292 history1 6	536 1636 799 931 2616 history2 7
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25	1968 881 1041 3263 current 6 3	576 1997 884 1058 3292 history1 6 2	536 1636 799 931 2616 history2 7 0
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	1968 881 1041 3263 current 6 3 3	576 1997 884 1058 3292 history1 6 2 3	536 1636 799 931 2616 history2 7 0 2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base	1968 881 1041 3263 current 6 3 3 3 current	576 1997 884 1058 3292 history1 6 2 3 3 history1	536 1636 799 931 2616 history2 7 0 2 2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >6	1968 881 1041 3263 current 6 3 3 3 current 0.4	576 1997 884 1058 3292 history1 6 2 3 3 history1 0.4	536 1636 799 931 2616 history2 7 0 2 history2 0.4
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm pm spm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >25 >20 limit/base >6 >20	1968 881 1041 3263 current 6 3 3 current 0.4 8.9	576 1997 884 1058 3292 history1 6 2 3 3 history1 0.4 9.8	536 1636 799 931 2616 history2 7 0 2 history2 0.4 9.7
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm pm spm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844	limit/base >25 >20 limit/base >6 >20 >30	1968 881 1041 3263 current 6 3 3 3 current 0.4 8.9 23.1	576 1997 884 1058 3292 history1 6 2 3 3 history1 0.4 9.8 23.4	536 1636 799 931 2616 history2 7 0 2 history2 0.4 9.7 23.8



OIL ANALYSIS REPORT







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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
the state	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	IES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	14	13.4	13.2	13.3
	GRAPHS						
	Iron (ppm)			10	Lead (ppm)		
	200 - Severe			8	Severe		
	150						
	100 - Abnormal			E 4	Ab.,		
	50 -			2			
			\sim	-	0	_	
	0ct16/17 Apr4/18 0ct24/18 May13/19	Aug10/20 Jun19/21	Mar14/22 0ct19/22	Aug 16/23	0ct16/17 Apr4/18 0ct24/18	May13/19 Aug10/20 Jun19/21	Mar14/22 Oct19/22 Aug16/23
	0ct1 Api 0ct2 May1	Aug1	Mar1 Oct1	Aug1	Oct1 Apr	May1 Aug1 Jun	Mar1 Oct1 Aug1
	Aluminum (ppm)				Chromium (p	opm)	
	50 T			5	1 1 1 1 1 1 1 1 1 1	19119191	a na ma
	40 - Severe			4			
	a ³⁰ 20 Abnormal			е ³			
	20 - Abnormal			2	0 - Abnormal		
	10			1	0	~	
			22			20	22
	0ct16/17 Apr4/18 0ct24/18 May13/19	Aug10/20 . Jun19/21	Mar14/22 0ct19/22	Aug 16/23	Oct16/17 Apr4/18 Oct24/18	May13/19 Aug10/20 Jun19/21	Mar14/22 Oct19/22 Aug16/23
	Copper (ppm)	A. L	N D	A	Silicon (ppm)		AL C
	400 Severe			8			
	300 -			6	0 -		
1	200-			E 4	0		
ŝ	100 -				Abnormal		
				2		$ \wedge $	
		20	22			20+21-21-21-21-21-21-21-21-21-21-21-21-21-2	22 +
	0ct16/17 Apr4/18 0ct24/18 May13/19	Aug10/20 Jun19/21	Mar14/22 Oct19/22	Aug 16/23	0ct16/17 Apr4/18 0ct24/18	May13/19 - Aug10/20 - Jun19/21	Mar14/22 - Oct19/22 - Aug16/23 -
	Viscosity @ 100°C	A L	2 0	4	Base Numbe		A C A
	¹⁸ Abnormal				0 -		
				(b)H0) H0) Bul) and B. adumn 4. 2.	0 - Base		
	ala Base Abnormal			B 8.			
	- #		Ŷ	ag mg 4.	0		
	10			2 % 2.	0		
	8		2	0.1	0		2+
	0ct16/17 Apr4/18 0ct24/18 May13/19	Aug10/20 Jun19/21	Mar14/22 0ct19/22	Aug 16/23	0ct16/17- Apr4/18 - 0ct24/18 -	May13/19 - Aug10/20 - Jun19/21 -	Mar14/22 - Oct19/22 - Aug16/23 -
	0c 0c May	Jur	Ma	Aui	0¢ 0c	Mar Auç Jur	Ma Oc Aug
lo. ber	: WearCheck USA - 501 : RW0004899 : 06160997 : 10996420	Madiso Recei Teste Diagn	ved : 2 d : 2	y, NC 27513 5 Apr 2024 6 Apr 2024 6 Apr 2024 - W	/es Davis	20	ER CONCRE 05 S CEDAR IMLAY CITY US 48



Unique Number : 10996420 : 26 Apr 2024 - Wes Davis Test Package : MOB 2 Certificate 12367 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)

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