

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id KENWORTH HO-04 Component

Diesel Engine Fluid {not provided} (--- GAL)

Bindinoolo

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

There is no indication of any contamination in the oil.

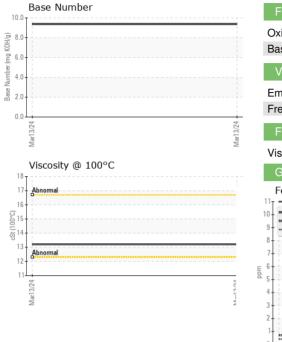
Fluid Condition

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

				Mar2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901130		
Sample Date		Client Info		13 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		400		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	٨	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	11		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	3		
Lead	ppm	ASTM D5185(m)	>40	5		
Copper	ppm	ASTM D5185(m)	>330	2		
Tin	ppm	ASTM D5185(m)	>15	2		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		49		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		42		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		525		
Calcium	ppm	ASTM D5185(m)		1747		
Phosphorus	ppm	ASTM D5185(m)		764		
Zinc	ppm	ASTM D5185(m)		866		
Sulfur	ppm	ASTM D5185(m)		2257		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	6.5		
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1		



OIL ANALYSIS REPORT



Validity of results and interpretation are based on the sample and information as supplied.

	FLUID DEGRAD		ethod limit/b 1 D7414* >25	20		history1	history2
	Oxidation Base Number (BN)		// D7414" >25 // D2896*	9.3			
	VISUAL		ethod limit/b		current	history1	history2
	Emulsified Water	scalar Visu		NE			
	Free Water	scalar Visu		N			
Mar13/24	FLUID PROPER	TIES me	ethod limit/b	ase	current	history1	history2
M	Visc @ 100°C	cSt ASTM	D7279(m)	13	.2		
	GRAPHS						
	Ferrous Alloys						
	10 - iron 9 - iron iron						
	8						
	7						
2	e 6 5						
C prove and a	4						
	2						
	Mar13,24		Mar13/24				
	≊ Non-ferrous Meta		W				
	¹⁰ T	115					
	9 - copper second lead						
	7						
	6						
	ق. 5						
	3 -						
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	1						
	o Mar13/24		Mar13/24 .				
		-	Mar				
	Viscosity @ 100°	С			e Number		
	18 T						
	18			9.0			
	18 17 Abnormal			9.0			
	18 17 - Abnormal 16 -			9.0			
	18 17 - Abnormal 16 -			9.0			
	18 17 Abnormal			9.0			
	18 17 Abnormal 16 0-015 			9.0 - 8.0 - (0/100 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000			
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CALA Laboratory Sample No.	18 17 40-0001 16 16 16 16 16 16 16 16 16 1	Received	e, Burlington, OI : 19 Mar 20	9.0 8.0 8.0 1.0 0,HOX Bul Jaquer M 4.0 0.0 0,HOX Bul Jaquer M 4.0 0.0 0,HOX Bul Jaquer M 4.0 0,0 0,HOX Bul Jaquer M 4.0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0			RGY GROU
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Sample No.	* WearCheck - C8-117 * WC0901130 • 02622961 • 5748080 • FLEET	Received Tested Diagnosed	e, Burlington, Of : 19 Mar 20 : 20 Mar 20 : 20 Mar 20	9.0 8.0 8.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0		3277 PARS ED	RGY GROU

Report Id: GOLEDM [WCAMIS] 02622961 (Generated: 03/20/2024 09:28:48) Rev: 1

Contact/Location: Kurt Bromling - GOLEDM

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