

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

KENWORTH 94

Diesel Engine

Fluid DIESEL ENGINE OIL SAE 15W40 (--- 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.

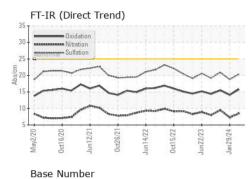
Fluid Condition

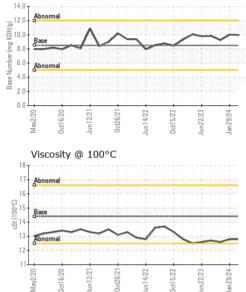
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATION Fuel	hrs hrs	method Client Info Client Info Client Info Client Info method	limit/base	current RW0005162 30 Mar 2024 7367 322 Changed NORMAL	history1 RW0004726 29 Jan 2024 7045 208 Changed	history2 RW0004582 28 Oct 2023 6837 463
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATION Fuel	hrs	Client Info Client Info Client Info Client Info method		RW0005162 30 Mar 2024 7367 322 Changed	RW0004726 29 Jan 2024 7045 208	RW0004582 28 Oct 2023 6837
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATION Fuel	hrs	Client Info Client Info Client Info Client Info method	limit/base	30 Mar 2024 7367 322 Changed	29 Jan 2024 7045 208	28 Oct 2023 6837
Machine Age Oil Age Oil Changed Sample Status CONTAMINATION Fuel	hrs	Client Info Client Info Client Info method	limit/base	7367 322 Changed	7045 208	6837
Oil Age Oil Changed Sample Status CONTAMINATION Fuel	hrs	Client Info Client Info method	limit/base	322 Changed	208	
Oil Changed Sample Status CONTAMINATION Fuel		Client Info method	limit/base	Changed		
Sample Status CONTAMINATION Fuel		method	limit/base	Ū	V U AU U EU	Changed
CONTAMINATION			limit/base		NORMAL	NORMAL
				current	history1	history2
		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
	nnm	ASTM D5185m	>100		8	15
lron Chromium	ppm ppm	ASTM D5185m	>100	23 <1	8 <1	<1
Nickel		ASTM D5185m	>20	0	0	0
Titanium	ppm ppm	ASTM D5185m	>4	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	3
Lead	ppm	ASTM D5185m	>40	- <1	<1	0
Copper	ppm	ASTM D5185m	>330	<1	0	0
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m	210	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	<1	7
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	68	58	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	1142	908	878
Calcium	ppm	ASTM D5185m	3000	1377	1044	1104
Phosphorus	ppm	ASTM D5185m	1150	1270	962	987
Zinc	ppm	ASTM D5185m	1350	1563	1247	1205
Sulfur	ppm	ASTM D5185m	4250	4666	3006	2812
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m	>158	<1	0	<1
Potassium	ppm	ASTM D5185m	>20	3	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.3	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	18.8	20.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	14.1	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.96	10.03	9.25



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (231)873-2889

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Certificate 12367

Laboratory

Sample No.

Contact/Location: DAN HALLACK KARL BUTCHER - HALHAR

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