

OIL ANALYSIS REPORT

FUEL SAMPLE INFORMATION method

current

Sample Rating Trend

limit/base

FREIG	HTL	INER	30037
Component		_	

Front Diesel Engine Fluic CASTROL VECTON 15W40 CK4 (18 LTR)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

					History	matoryz
Sample Number		Client Info		PC0075266	AP103379	AP103305
Sample Date		Client Info		10 May 2023	14 Mar 2018	08 Feb 2017
Machine Age	kms	Client Info		305692	184107	163525
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	SEVERE	NORMAL
CONTAMINAT		method	limit/base	current	history1	history2
			IIIIII/Dase			
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>130	13	13	16
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	3
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>125	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	2	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		9	32	30
Barium	ppm	ASTM D5185(m)		<1	0	<1
Molybdenum	ppm	ASTM D5185(m)		60	3	<1
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		955	10	8
Calcium	ppm	ASTM D5185(m)		1016	2186	2322
Phosphorus	ppm	ASTM D5185(m)		993	898	900
Zinc	ppm	ASTM D5185(m)		1184	1111	1136
Sulfur	ppm	ASTM D5185(m)		2543	3076	3071
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Sodium	ppm	ASTM D5185(m)		2	2	1
Potassium	ppm	ASTM D5185(m)	>20	3	4	1
Fuel	%	ASTM D7593*	>3.0	A 3.3	7.4	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.5	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	9.5	9.9	10.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	21.7	24.8
FLUID DEGRA			limit/base	current	history1	history2
					19.4	
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8		20.1
9:48:21) Rev: 1	Contact/Location: Antonio Rodrigues - TFSTOR					

history2

history1



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