

OIL ANALYSIS REPORT

Sample Rating Trend



INTERNATIONAL 441324

Diesel Engine

MOBIL 15W40 (21 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

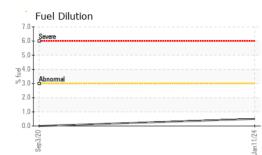
Fluid Condition

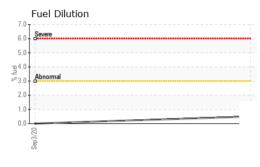
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

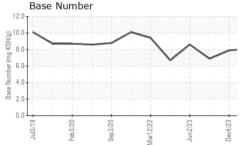
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0030585	IL0030550	IL0030460
Sample Date		Client Info		11 Jan 2024	04 Dec 2023	14 Aug 2023
Machine Age	mls	Client Info		174027	162596	130412
Oil Age	mls	Client Info		0	104956	92805
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>130	18	25	22
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	9	7
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>125	<1	1	3
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		16	2	20
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		62	65	57
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		745	969	606
Calcium	ppm	ASTM D5185m		1641	1069	2306
Phosphorus	ppm	ASTM D5185m		1106	1010	1212
Zinc	ppm	ASTM D5185m		1342	1270	1473
Sulfur	ppm	ASTM D5185m		3213	3320	4269
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		6	8	6
Sodium	ppm	ASTM D5185m		3	2	13
Potassium	ppm	ASTM D5185m	>20	4	14	12
Fuel	%	ASTM D3524	>3.0	0.5	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.7	0.2
Nitration	Abs/cm	*ASTM D7624	>20	13.9	11.5	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	22.3	25.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	19.5	22.3
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	7.9	6.9



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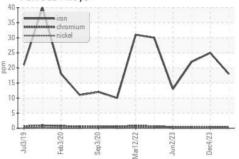


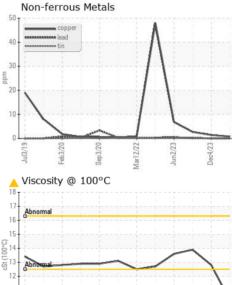




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPER	TIES	method	limit/base	current	history1	history2
		methou	iiiiii base	Current	Thistory	Thistory2
Visc @ 100°C	cSt	ASTM D445		10.3	12.8	13.9
GRAPHS						







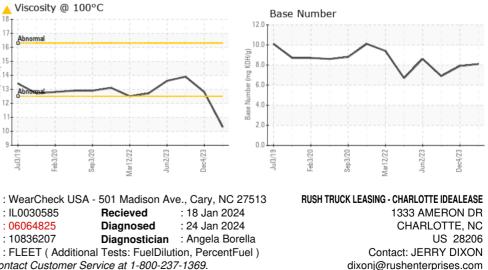
Dec4/23.

Jun2/23

Mar12/22

Recieved

Diagnosed



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Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Certificate L2367 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)

Sep3/20

10

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Laboratory

Sample No.

Lab Number

Unique Number

ul3/19

: IL0030585

: 06064825

: 10836207

Feb3/20.

Submitted By: JERRY DIXON

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