

OIL ANALYSIS REPORT

Sample Rating Trend





OJ/4 Component

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.

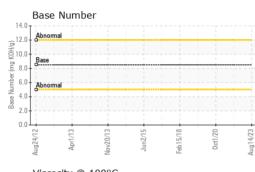
Fluid Condition

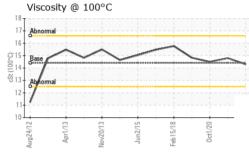
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Aug2012	Apri2013 Nov2013	Jun2015 Feb2018 Oct2020	Aug2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837176	WC0617838	WC0503531
Sample Date		Client Info		14 Aug 2023	18 Oct 2021	01 Oct 2020
Machine Age	hrs	Client Info		5740	5281	5479
Oil Age	hrs	Client Info		459	350	572
Dil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	48	20	96
Chromium	ppm	ASTM D5185m		1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	2
_ead	ppm	ASTM D5185m	>40	3	2	5
Copper	ppm	ASTM D5185m	>330	1	<1	2
Гin	ppm	ASTM D5185m	>15	<1	0	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	26	16	26
Barium	ppm	ASTM D5185m	10	0	0	<1
Volybdenum	ppm	ASTM D5185m	100	95	54	101
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	450	1409	982	1417
Calcium	ppm	ASTM D5185m	3000	1634	1193	1991
Phosphorus	ppm	ASTM D5185m	1150	1492	990	1600
Zinc	ppm	ASTM D5185m	1350	1804	1138	1778
Sulfur	ppm	ASTM D5185m	4250	4579	4418	4282
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	3	7
Sodium	ppm	ASTM D5185m	>158	2	2	5
Potassium	ppm	ASTM D5185m	>20	2	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.7	1.6
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.3	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	19.2	22.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	14.5	16
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.6		

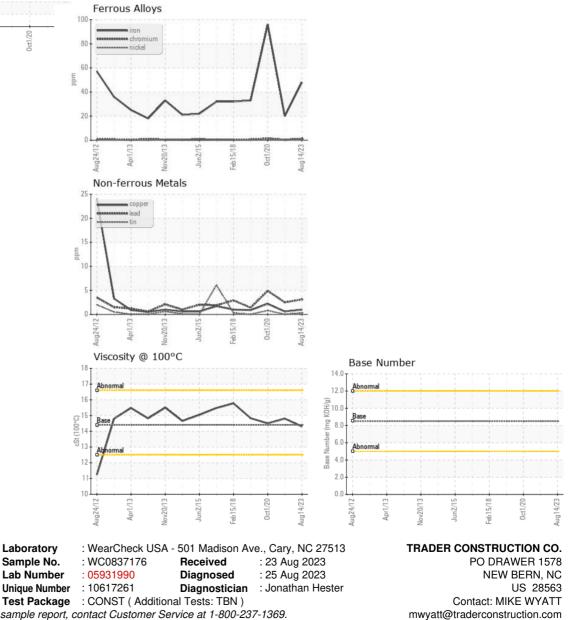


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.3	14.8	14.5
GRAPHS						





 Certificate L2367
 Test Package
 : CONST (Additional Tests: TBN)

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 mwy

 * - 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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