

Machine Id **DFA28087** Component **Diesel Engine** Filuid **DIESEL ENGINE OIL SAE 15W40 (--- QTS)**

Description of the second second second terms in the second secon	Sample Nu
Resample at the next service interval to monitor. Please specify the	Sample D
component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Machine A
brand, type, and viscosity of the on on your next sample.	Oil Age
	Filter Age
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	Sample S

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All component wear rates are normal.

RECOMMENDATION

CONTAMINATION

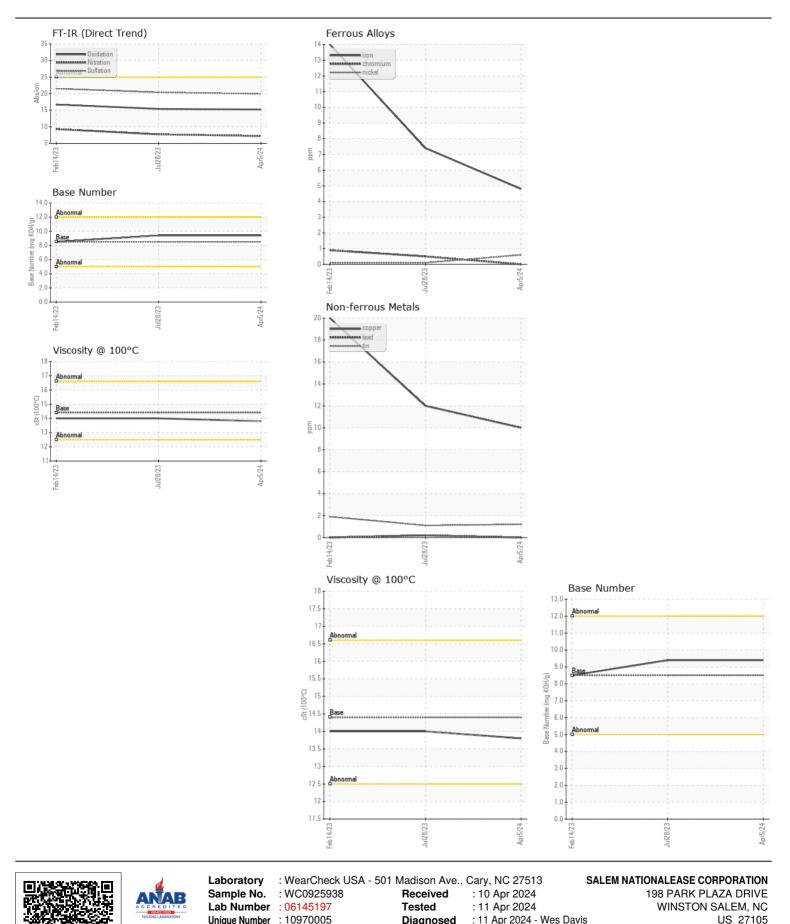
There is no indication of any contamination in the oil.

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0925938	WC0820964	WC0790440
Sample Date		Client Info		05 Apr 2024	28 Jul 2023	14 Feb 2023
Machine Age	mls	Client Info		0	0	130817
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	5	7	14
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	5
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	10	12	20
Tin	ppm	ASTM D5185m	>15	1	1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	3	4	4
Potassium	ppm	ASTM D5185m	>20	5	5	11
Fuel	ppm	WC Method	>20		<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	>0.2	NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.4
Nitration	Abs/cm	*ASTM D7644	>20	7.2	7.7	9.3
Sulfation	Abs/.1mm	*ASTM D7024	>30	19.9	20.4	21.5
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		*Visual	>0.2	NEG	NEG	NEG
		10000	20.L		NEG	NEG
Sodium	ppm	ASTM D5185m	>158	1	1	0
Boron	ppm	ASTM D5185m	250	<1	0	0
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	60	61	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	996	1003	899
Calcium	ppm	ASTM D5185m	3000	1108	1124	1150
Phosphorus	ppm	ASTM D5185m	1150	1100	1043	988
Zinc	ppm	ASTM D5185m	1350	1326	1290	1239
Sulfur	ppm	ASTM D5185m	4250	3769	3655	3246
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	15.4	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.4	9.4	8.5
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	14.0	14.0

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Diagnosed Unique Number : 10970005 : 11 Apr 2024 - Wes Davis Test Package : FLEET **Contact: Audrey Hopkins** Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Audrey.Hopkins@salemcorp.com * - 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)

Contact/Location: Audrey Hopkins - SALWIN Page 2 of 2

T: (336)767-9642

F: x: