

WEAR	
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id **55824** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIIUADII	DC0035962	DC0032859	DC0031586
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		18 Jun 2024	20 Dec 2023	12 Sep 2023
	Machine Age	hrs	Client Info		1939	1669	1535
	Oil Age	hrs	Client Info		0	250	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		0.0.0.1		NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	5	5	4
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	0
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		2	2	2
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m	NONE	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	4
	Potassium	ppm	ASTM D5185m		2	1	1
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.7	6.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.7	16.0	15.7
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<158	2	<1	1
I LOID CONDITION	Boron		ASTM D5185m		4	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		4	2	1
	Manganese	ppm	ASTM D5185m		- <1	0	<1
	Magnesium	ppm	ASTM D5185m	450	51	46	59
	Calcium	ppm	ASTM D5185m		2242	2244	2667
	Phosphorus	ppm	ASTM D5185m		879	945	1038
	Zinc	ppm	ASTM D5185m		1052	1112	1262
	Sulfur	ppm	ASTM D5185m		3749	3781	4756
	Oxidation		*ASTM D7414		9.4	9.8	9.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

7.3

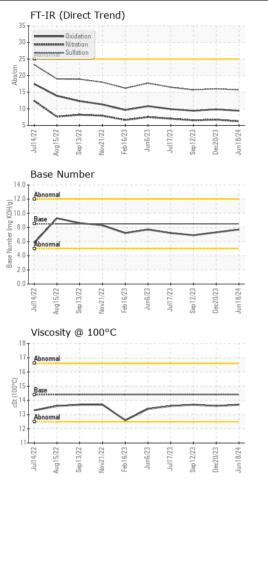
13.6

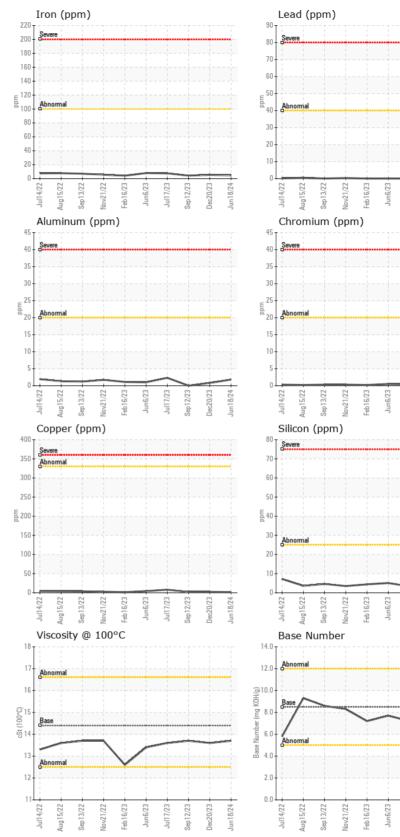
6.9

13.7

7.7

13.7





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 FRANCIS O DAY Sample No. : DC0035962 Received 14900 SOUTHLAWN LN : 10 Jul 2024 ROCKVILLE, MD Lab Number : 06232088 Tested : 11 Jul 2024 : 11 Jul 2024 - Wes Davis US 20850 Unique Number : 11115581 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: JAMIE FORESTER 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. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Sep 12/23 Jec20/23 un18/24

ep12/23

ep12/23 lec20/23

Jul17/23 Sep12/23 Dec20/23 Jun18/24

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Contact/Location: JAMIE FORESTER - FRAROCDC Page 2 of 2