

WEAR CONTAMINATION FLUID CONDITION

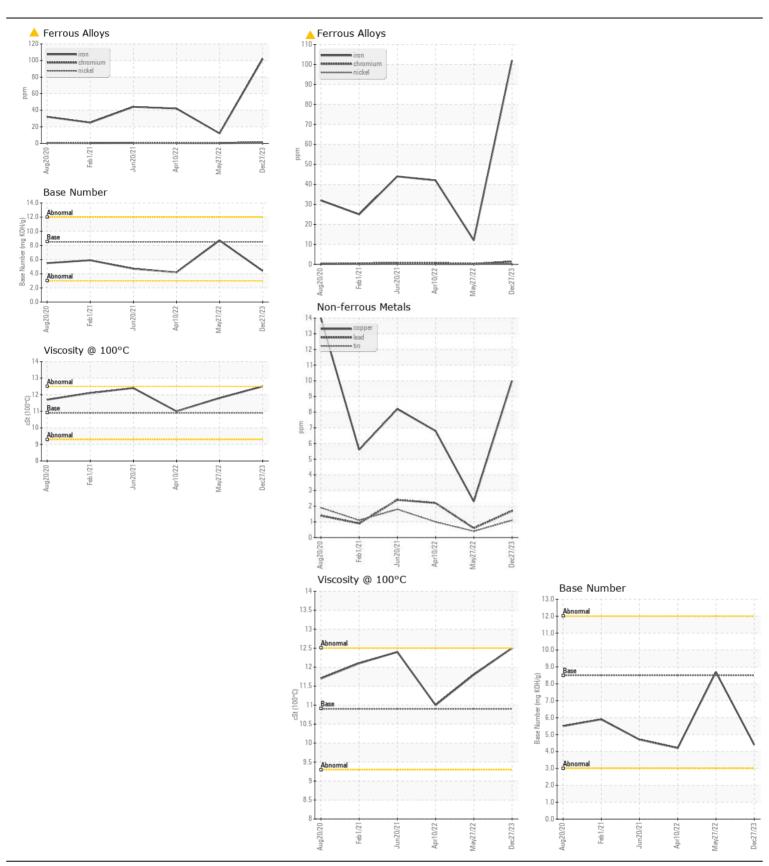
ABNORMAL NORMAL NORMAL

Machine Id

2108

Component
Diesel Fngine

Diesel Engine Fluid DIESEL ENGINE OIL SAE 5W30 (GAL)							
RECOMMENDATION	Toot	UOM	Method	Limit/Abn	Current	Lioton/1	Lioton/2
RECOMMENDATION	Test Sample Number	UOIVI	Client Info	LIIIII/ADII	WC0876665	History1 WC0686151	History2 WC0654945
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		27 Dec 2023	27 May 2022	10 Apr 2022
	Machine Age	mls	Client Info		423961	258581	246446
	Oil Age	mls	Client Info		50000	100000	50000
	Filter Age	mls	Client Info		50000	50000	50000
	Oil Changed	11110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAD	lron		ACTM DE10Em	. 100	400	10	40
WEAR	Iron	ppm	ASTM D5185m		<u> 102</u>	12	42
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	3
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m		8	1	5
	Lead	ppm	ASTM D5185m		2	<1	2
	Copper	ppm	ASTM D5185m		10	2	7
	Tin	ppm	ASTM D5185m	>15	1	<1	1
	Vanadium	ppm	ASTM D5185m	NONE	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	6	7
CONTAININATION	Potassium	ppm	ASTM D5185m		7	6	10
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		, <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 O.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.6	0.3	0.9
	Nitration	Abs/cm		>20	14.5	9.5	14.4
	Sulfation	Abs/.1mm	*ASTM D7415		31.6	20.8	30.5
	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
ELUID CONDITION	C- 4:		ACTM DC10C		4		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	050	4	3	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		8	36	9
	Barium	ppm	ASTM D5185m		0	0	0
	Monganasa	ppm	ASTM D5185m ASTM D5185m	100	64	61 <1	60 <1
	Manganese	ppm		150	<1		
	Magnesium Calcium	ppm	ASTM D5185m		1128	1086	1117 927
	Phosphorus	ppm	ASTM D5185m		860	845	
	•	ppm	ASTM D5185m		1101	1023	1056
	Zinc Sulfur	ppm	ASTM D5185m		1303	1263	1326
		ppm Abo/1mm	ASTM D5185m		3100	3212	2692
	Oxidation	Abs/.1mm	*ASTM D7414		33.5	18.9	32.7
	Base Number (BN)		ASTM D2896		4.4	8.7	4.2
	Visc @ 100°C	cSt	ASTM D445	10.9	12.5	11.8	11.0







Laboratory Sample No. Lab Number **Unique Number**

: 06058678 : 10830060 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0876665 Recieved : 11 Jan 2024 Diagnosed : 14 Jan 2024

Diagnostician

: Don Baldridge

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* - 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)