WEAR CONTAMINATION FLUID CONDITION

NORMAL

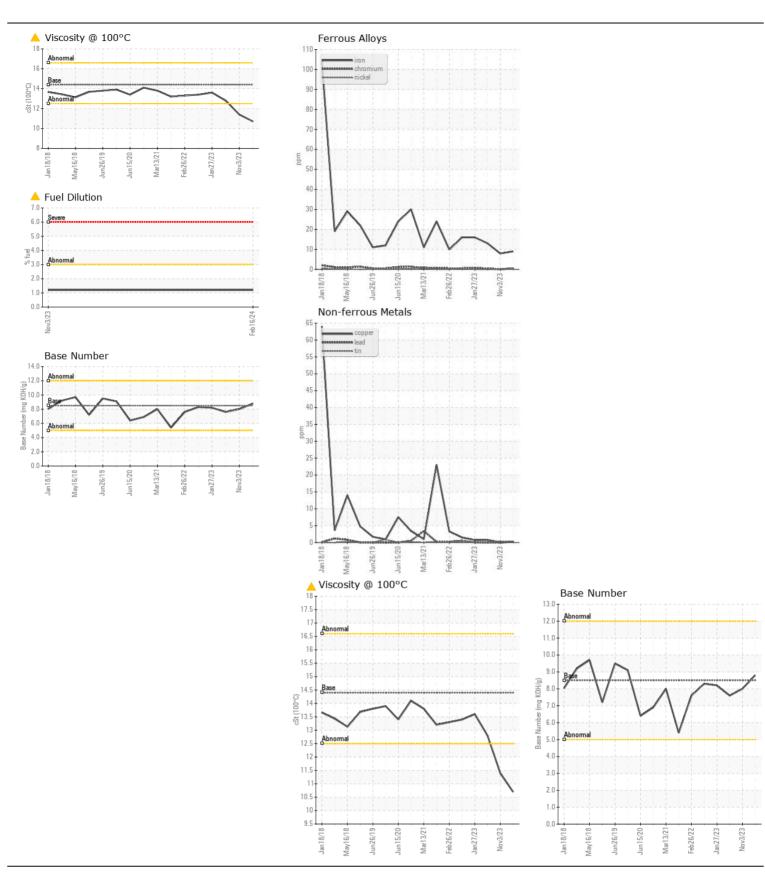
MARGINAL

ABNORMAL

Machine Ic

INTERNATIONAL 3556

Diesel Engine							
DIESEL ENGINE OIL SAE 5W40 (18 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number	OOW	Client Info	LIIIIIUAUII	WC0854007	WC0854074	WC0822875
	Sample Date		Client Info		16 Feb 2024	03 Nov 2023	10 Jul 2023
	Machine Age	mls	Client Info		118199	113150	107737
	Oil Age	mls	Client Info		5009	5456	7796
	Filter Age	mls	Client Info		5009	5456	7796
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>130	9	8	13
	Chromium	ppm	ASTM D5185m		<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	3	4
	Lead	ppm	ASTM D5185m	>20	<1	0	0
	Copper	ppm	ASTM D5185m	>125	<1	0	<1
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	4
Light fuel dilution occurring.	Potassium	ppm	ASTM D5185m	>20	2	2	2
	Fuel	%	ASTM D3524	>3.0	1.2	1.2	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.1	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.1	7.6
	Sulfation	Abs/.1mm	*ASTM D7415		18.1	18.1	19.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE NORML	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML	NORML	NORML	NORML
	Emulsified Water			>0.2	NEG	NEG	NEG
FI LUD CONDITION							
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		2	0	1
	Boron	ppm	ASTM D5185m ASTM D5185m		5 0	16 0	101
	Molybdenum	ppm	ASTM D5185m		63	45	65
	Manganese	ppm	ASTM D5185m	100	0	0	<1
	Magnesium	ppm	ASTM D5185m	450	1008	686	399
	Calcium	ppm	ASTM D5185m	3000	1184	1455	1802
	Phosphorus	ppm	ASTM D5185m		1135	1043	991
	Zinc	ppm		1350	1314	1279	1245
	Sulfur	ppm	ASTM D5185m		3549	3326	3824
	Oxidation	Abs/.1mm	*ASTM D7414		14.5	13.4	16.3
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	8.0	7.6
	Visc @ 100°C	cSt	ASTM D445	14.4	10.7	11.4	12.8







Certificate L2367

Laboratory Sample No.

: WC0854007 Lab Number : 06121479 Unique Number : 10930312

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Mar 2024 **Tested**

: 21 Mar 2024

: 21 Mar 2024 - Wes Davis Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

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