WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

Machine Id **51309** 

Component
Discol Engine

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0841991	WC0842182	
	Sample Date		Client Info		15 Jan 2024	16 Nov 2023	28 Sep 202
	Machine Age	mls	Client Info		671188	668073	653140
	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				ABNORMAL	NORMAL	NORMAI
WEAR	Iron	ppm	ASTM D5185m	>200	16	9	26
	Chromium	ppm	ASTM D5185m	>6	<1	1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>3	<1	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>50	5	4	14
	Lead	ppm	ASTM D5185m	>10	1	1	0
	Copper	ppm	ASTM D5185m	>50	2	7	6
	Tin	ppm	ASTM D5185m	>6	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	5	4	7
SONTAMINATION	Potassium	ppm	ASTM D5185m		2	<1	2
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524		<u>∠</u> 4.3	<1.0	<1.0
	Water	,,,	WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	5.9	7.4	9.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.8	21.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<b>\158</b>	<1	0	0
LOID CONDITION	Boron	ppm	ASTM D5185m		220	<1	<1
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 oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		70	64	68
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m	450	625	974	1012
	Calcium	ppm	ASTM D5185m		1123	1022	1159
	Phosphorus	ppm	ASTM D5185m		1019	890	976
	Zinc	ppm	ASTM D5185m		1195	1247	1311
	Sulfur	ppm	ASTM D5185m		3089	3128	3138
	Oxidation	Abs/.1mm	*ASTM D7414		15.0	15.3	17.5

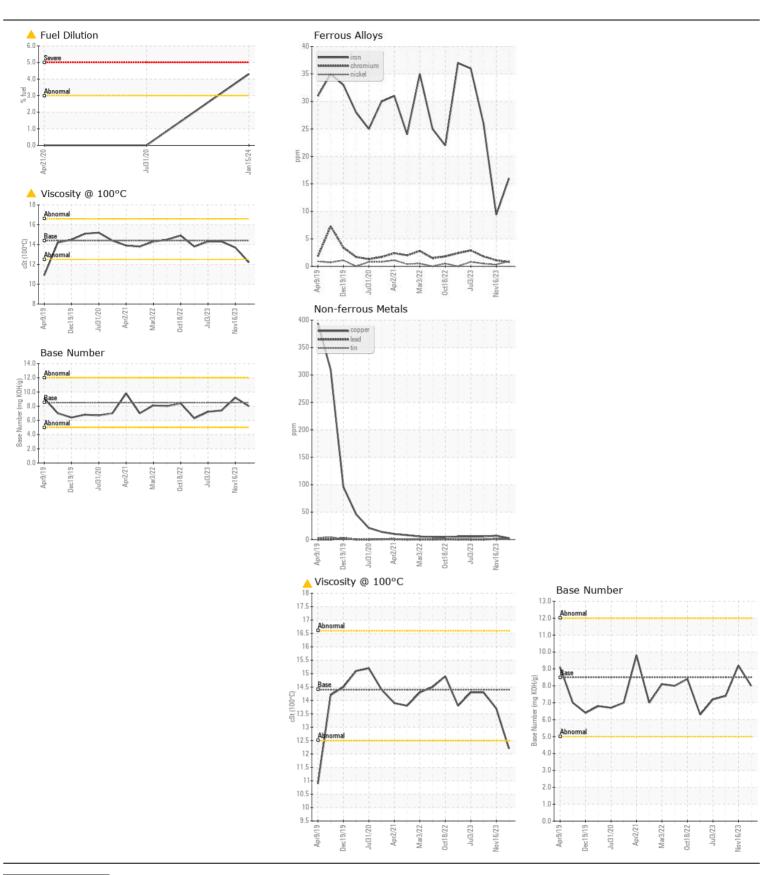
Visc @ 100°C cSt

ASTM D445 14.4

**12.2** 

13.7

14.3







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0841991 Lab Number : 06099670

Received **Tested** Unique Number : 10897900

: 26 Feb 2024 : 28 Feb 2024 : 28 Feb 2024 - Wes Davis Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

198 PARK PLAZA DRIVE WINSTON SALEM, NC US 27105

SALEM NATIONALEASE CORPORATION

Contact: Audrey Hopkins 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)

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

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