

**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

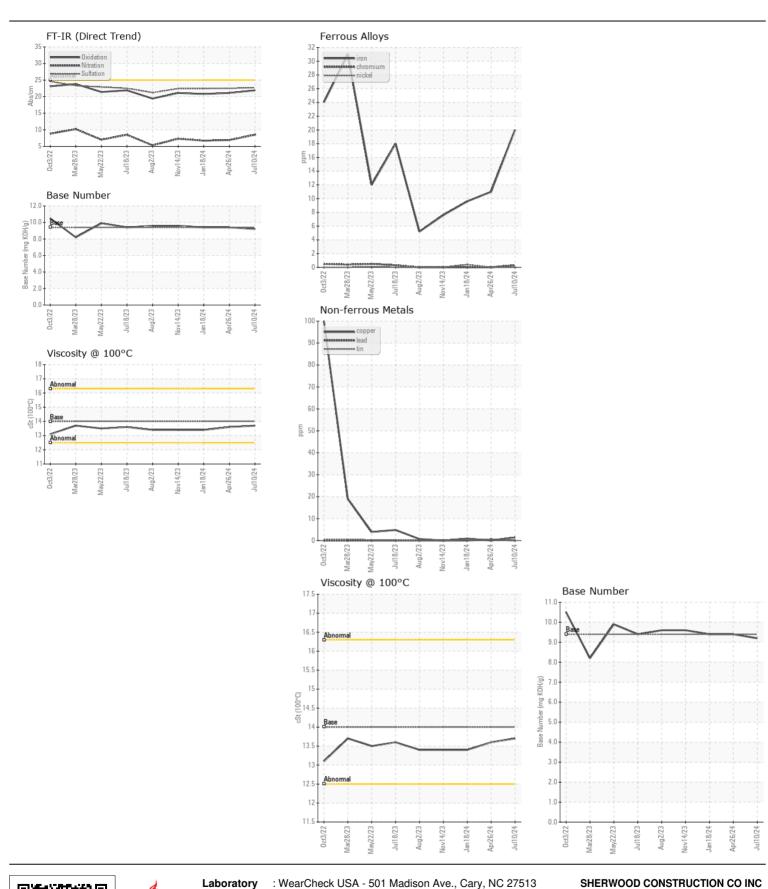


COLORADO/443/{UNASSIGNED}

35.106L [COLORADO^443^{UNASSIGNED}]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0928631	WC0928770	WC0883995
Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jul 2024	26 Apr 2024	18 Jan 2024
	Machine Age	hrs	Client Info		3316	3095	2833
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	20	11	10
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	0
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	6	2	4
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	1	0	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		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	5	3	5
	Potassium	ppm	ASTM D5185m	>20	0	0	0
There is no indication of any contamination in the oil.	Fuel		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	0.4	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	6.9	6.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.5	22.4
	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		3	0	1
	Boron	ppm	ASTM D5185m	0	22	58	55
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	0
	Molybdenum	ppm	ASTM D5185m	0	40	45	38
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	0	521	601	511
	Calcium	ppm	ASTM D5185m		1781	2062	1617
	Phosphorus	ppm	ASTM D5185m		807	890	729
	Zinc	ppm	ASTM D5185m		942	1110	897
	Sulfur	ppm	ASTM D5185m		2741	3297	2312
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.9	21.1	20.8
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.2	9.4	9.4
	Visc @ 100°C	cSt	ASTM D445	14	13.7	13.6	13.4







Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0928631 Lab Number : 06237402

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

Received

Diagnosed Unique Number: 11126236 Test Package : CONST (Additional Tests: TBN)

: 15 Jul 2024 **Tested** : 17 Jul 2024

: 17 Jul 2024 - Wes Davis

WICHITA, KS US 67213 Contact: BILL ORCUTT william.orcutt@wildcat.net

\* - 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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