

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Fluid DUDALENE Duro Max 15W/40 ( OTS)							
DURALENE Dura-Max 15W40 ( QTS) RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
<b>HECOMMENDATION</b>	Sample Number	00101	Client Info	LITTICAUT	DC0035728	DC0034588	DC06063783
Resample at the next service interval to monitor.	Sample Date		Client Info		21 Apr 2024	27 Feb 2024	16 Jan 2024
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	11	19	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m	>4	0	1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	2	<1
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		8	2	6
	Tin	ppm	ASTM D5185m ASTM D5185m	>15	<1	<1 0	0
	Vanadium White Metal	ppm scalar	*Visual	NONE	0 NONE	NONE	0 NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.							
	Silicon	ppm	ASTM D5185m		4	4	4
	Potassium	ppm	ASTM D5185m		0	<1	1
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.4	0.3
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	8.9 20.6	8.7 20.8	7.9 20.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris		*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
			ASTM D5185m		4	3	3
FLUID CONDITION	Sodium	ppm	ASTIVI DJ IOJIII				
FLUID CONDITION	Sodium Boron	ppm ppm	ASTM D5185m		37	38	36
The BN result indicates that there is suitable alkalinity remaining in the					37 0	38	36 0
	Boron	ppm	ASTM D5185m				
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m		0	0	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 45	0 49	0 44
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 45 <1 736 1252	0 49 0 790 1217	0 44 0 743 1295
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 45 <1 736 1252 740	0 49 0 790 1217 819	0 44 0 743 1295 751
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 45 <1 736 1252	0 49 0 790 1217	0 44 0 743 1295

Sulfur

Oxidation

Visc @ 100°C cSt

2590

18.2

8.1

13.2

2596

17.2

9.37

13.0

2532

18.7

9.27

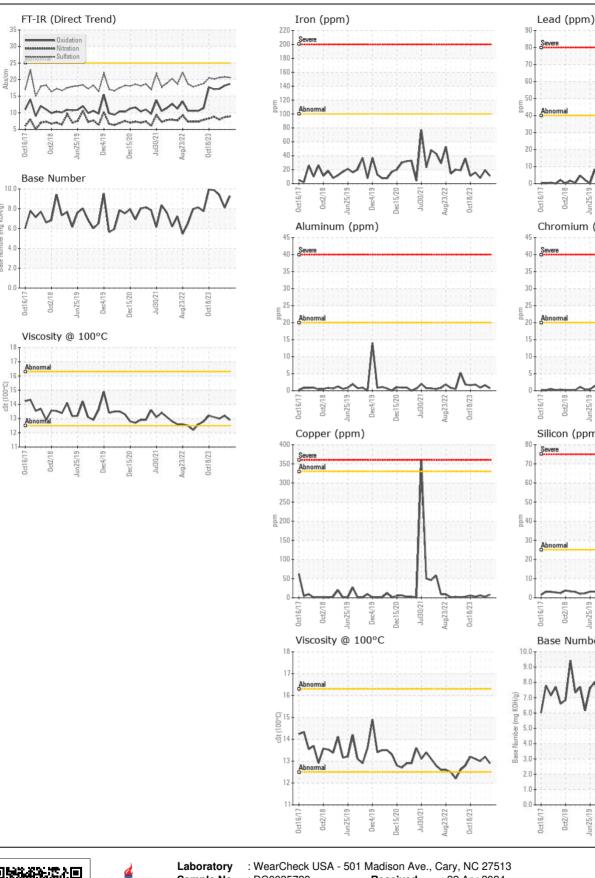
12.9

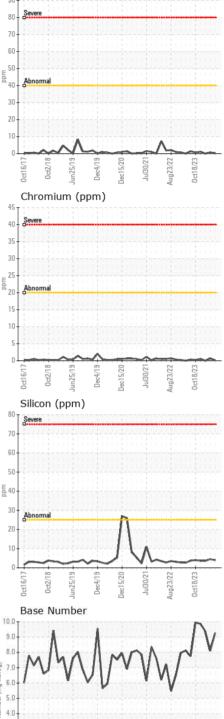
ppm ASTM D5185m

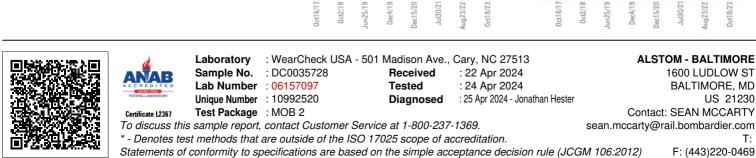
Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm \*ASTM D7414 >25

ASTM D445







Base Number (mg KOH/g)

Contact/Location: SEAN MCCARTY - BOMBAL Page 2 of 2