

Machine Id

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0689570		
	Sample Date		Client Info		28 Apr 2023		
	Machine Age	hrs	Client Info		598		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0 Not Changed		
	Oil Changed Filter Changed		Client Info Client Info		Not Changd Not Changd		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	14		
	Chromium	ppm	ASTM D5185m	>20	1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		0		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6		
	Potassium	ppm	ASTM D5185m		1		
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	8.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>44	17		
	Boron	ppm	ASTM D5185m		52		
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		
	Molybdenum	ppm	ASTM D5185m		55		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m	450	971		
	Calcium	ppm	ASTM D5185m		848		
	Phosphorus	ppm	ASTM D5185m	1150	968		

Zinc

Sulfur

Oxidation

Visc @ 40°C

1168

3304

16.8

81.5

13.3

165

10.53

ASTM D5185m 1350

ASTM D445 91

ppm ASTM D5185m 4250

Abs/.1mm *ASTM D7414 >25

ppm

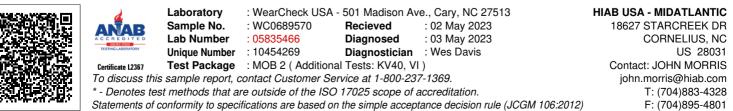
Base Number (BN) mg KOH/g ASTM D2896 8.5

Visc @ 100°C cSt ASTM D445 14.4

Viscosity Index (VI) Scale ASTM D2270 164

cSt





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